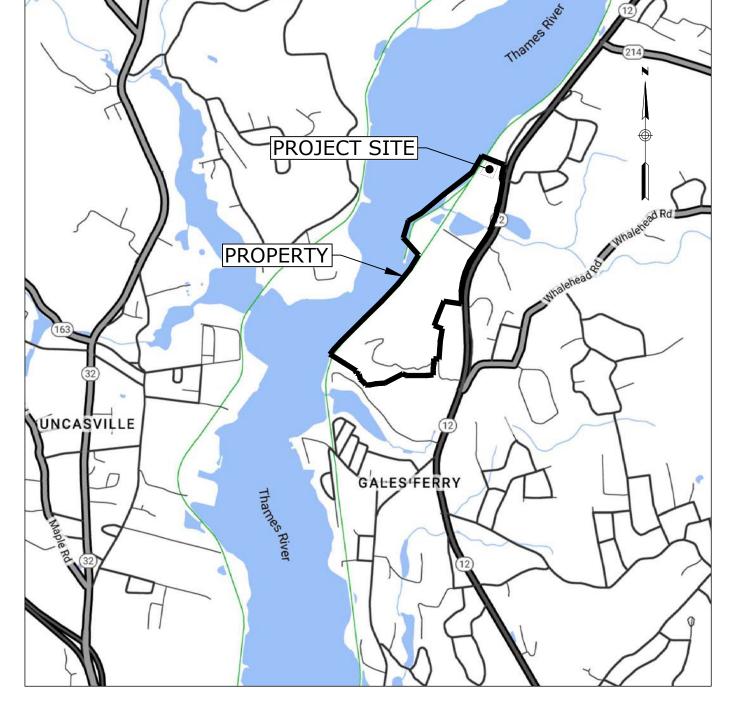
# GALES FERRY INTERMODAL

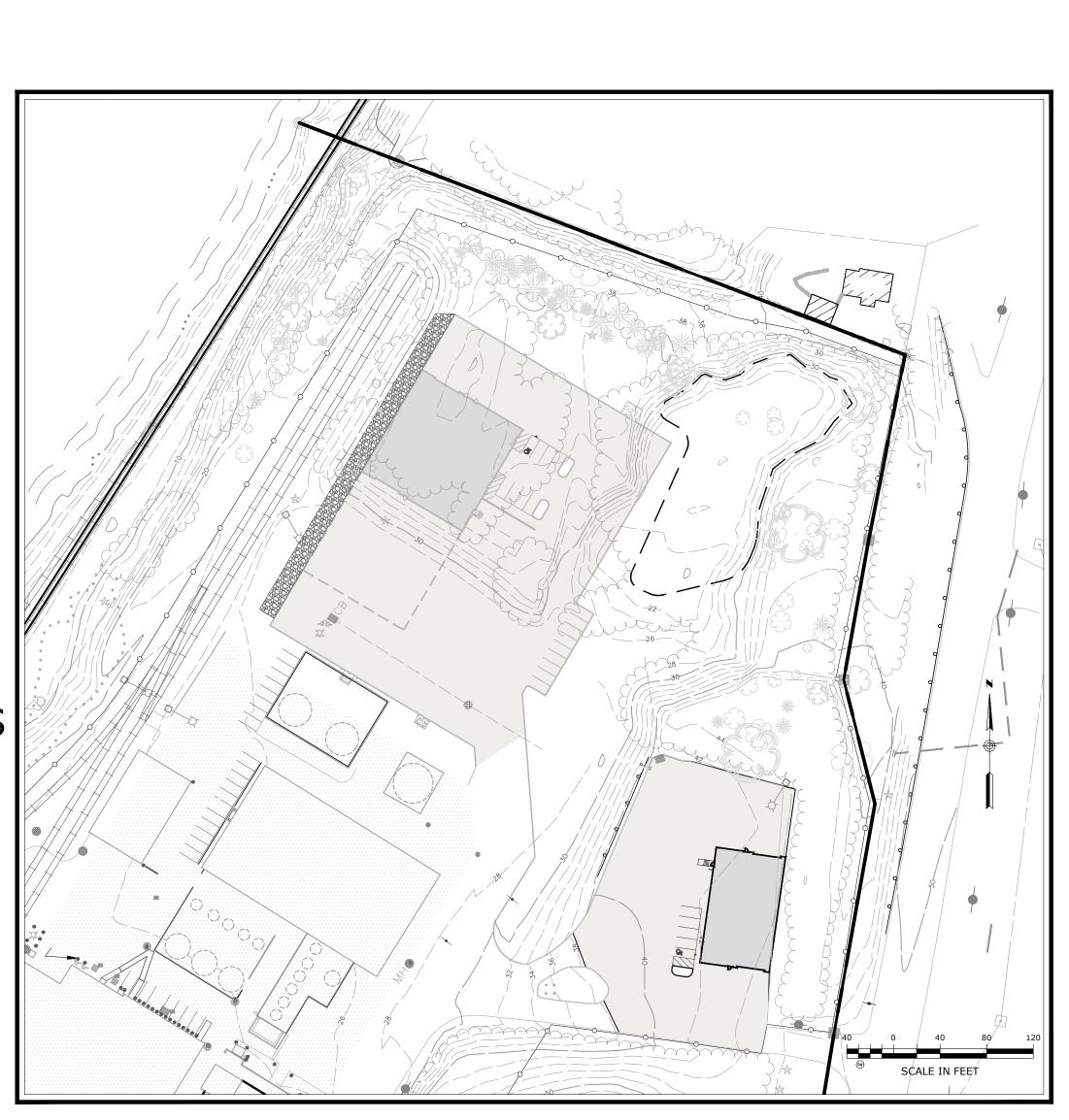
## SITE PLAN APPLICATION

1761 ROUTE 12 GALES FERRY, CONNECTICUT 06335

APRIL 25, 2024



LOCATION MAP SCALE: 1'=±2,000'



PZC PERMIT #\_\_

PZC CHAIRMAN OR SECRETARY

DATE OF APPROVAL

EXPIRATION DATE

		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 LAYOUT PLAN
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	SOIL EROSION AND SEDIMENT CONTROL DETAILS
19	C-16	SIGHTLINE DEMONSTRATION PLAN

# PROPERTY MAP, ZONING, AND ADJACENT FEATURES

SHORE LINE ELECTRIC RAILWAY COMPANY EASEMENT

NEW 6,000 SF BUILDING

ACCESS DRIVE

VOLUNTEER FIRE DEPARTMENT ENTRANCE

TRAFFIC LIGHT CONTROLLED

ENTRANCE TO PHEASANT RUN CONDOMINIUMS

PROPERTY ENTRANCE

AMERICAS STYRENICS OPERATION

EMERGENCY ACCESS DRIVE

FUTURE 'A1' -DEVELOPMENT AREA

ALLYN'S COVE AKA LAKE NOVA

DOCK IMPROVEMENTS -

N/F PROVIDENCE AND

WORCESTER RAILROAD COMPANY

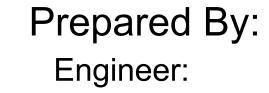
PROPERTY BOUNDARY

## Property Owner / Applicant:

GALES FERRY INTERMODAL LLC 549 SOUTH STREET **QUINCY, MA 02169** 









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

LEA# 045JC2.06

#### **SURVEY NOTES**

- 1. THIS PLAN IS BASED ON MAP REFERENCE A AND B.
- REFERENCE IS MADE TO THE TOWN OF LEDYARD, CT LAND EVIDENCE RECORDS VOLUME 621 AT PAGE 981 FOR THE SUBJECT PROPERTY.
- 3. THE SUBJECT PROPERTY IS LOCATED ENTIRELY WITHIN THE "I" INDUSTRIAL ZONE DISTRICT. 4. "NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NEW LONDON COUNTY, CONNECTICUT ALL JURISDICTIONS PANEL 354, TOWN OF LEDYARD, MAP NUMBER 09011C0354G EFFECTIVE DATE JULY 18, 2011 FEDERAL EMERGENCY MANAGEMENT AGENCY" INDICATES THE SUBJECT PROPERTY IS LOCATED IN ZONE AE (EL 12) AND ZONE X.
- 5. THE SUBJECT PROPERTY IS SHOWN ON THE TOWN OF LEDYARD, CT TAX ASSESSOR MAP 61 BLOCK 2120 AS LOT 1761 WHICH HAS ASSIGNED STREET ADDRESSES OF 1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335.
- 6. UNDERGROUND UTILITIES MUST BE FIELD VERIFIED PRIOR TO ANY EXCAVATION.
- 7. INLAND WETLANDS WERE DELINEATED IN THE FIELD BY JMM WETLAND CONSULTING SERVICES, LLC AND LOCATED BY LOUREIRO ENGINEERING ASSOCIATES, INC., GROTON,
- 8. LIMITS OF FLOOD ZONE SHOWN ON PROPOSED PLAN ARE FROM FEMA NFIP MAP NUMBER 09011C0354G, EFFECTIVE DATE JULY 18, 2011.
- 9. LIMITS OF NATURAL DIVERSITY DATA BASE AREAS SHOWN ON THE OVERALL SITE PLAN ARE FROM THE CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION BUREAU OF NATURAL RESOURCES WILDLIFE DIVISION LEDYARD, CT MAP, DATED DECEMBER 2022.

#### MAP REFERENCES

- A. PROPERTY SURVEY, PROPERTY OF TRINSEO LLC, #1737 & #1761 MILITARY HIGHWAY (ROUTE 12), LEDYARD, GALES FERRY, CT, PREPARED FOR: JAY CASHMAN, INC., 549 SOUTH STREET, OUINCY, MA, SCALE: 1"=100', DATE: 5/10/2022, BY CHA
- B. PROPERTY AND TOPOGRAPHIC SURVEY, #1737 & #1761 MILITARY HIGHWAY (ROUTE 12), LEDYARD, GALES FERRY, CT, PREPARED FOR: STYRON LLC "ALLYN'S POINT PLANT", BY CME, DATED SEPT. 2, 2010. THE FOLLOWING NOTES ARE FROM THIS MAP REFERENCE:
- B.A. 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.
- B.B. VERTICAL INFORMATION DEPICTED HEREON CONFORMS TO VERTICAL CLASS T-3 STANDARDS OF ACCURACY. CONTOURS, 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
- B.C. THIS SURVEY WAS PREPARED TO DEPICT THE BOUNDARY AND EXISTING CONDITIONS OF
- C. THE PROPERTY SURVEY, SHEET 1 OF 2, PREPARED BY CHA DATED 5/10/2022 NOTE 6 STATES THE PURPOSE OF THE INDUSTRIAL ZONE REFERENCING SECTION 4.9A OF THE ZONING REGULATIONS. THE REGULATIONS HAVE SINCE BEEN UPDATED AND THE NEW "PURPOSE" IS: TO ENCOURAGE THE ADOPTION, CONTINUOUS AND EXPANSION OF MANUFACTURING, RESEARCH, AND INDUSTRIAL USES IN A WAY THAT PROTECTS OUR NATURAL ASSETS.
- D. DRAINAGE IN THE ROUTE 12 RIGHT-OF-WAY FROM THE CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP, TOWN OF LEDYARD, NORWICH-GROTON ROAD, FROM ALLYN'S BROOK NORTHERLY TO LEDYARD-PRESTON TOWN LINE, MAP NUMBER 71-16, DATED

#### SITE NOTES:

- 1. THE APPLICANT/OWNER IS GALES FERRY INTERMODAL LLC OF 549 SOUTH STREET, QUINCY, MA.
- 2. PER SPECIAL PERMIT PZ#23-4SUP, THE APPLICANT RECEIVED APPROVAL TO TO CONSTRUCT A 6,000 SF INDUSTRIAL BUILDING AS WELL AS A 10,000 SF INDUSTRIAL BUILDING WITH A FUTURE 10,000 SF ADDITION, WHICH WILL BE UTILIZED BY THE APPLICANT, AND/OR ITS AFFILIATES, FOR STORAGE AND REPAIR OF MARINE EQUIPMENT AND APPURTENANCES WHICH ARE UTILIZED BY THE APPLICANT'S AFFILIATES IN CONJUNCTION WITH ITS MARINE CONTRACTING AND DREDGING OPERATIONS.
- 3. THE APPLICANT IS PROPOSING TO MOVE THE LOCATION OF THE APPROVED 6,000 SF INDUSTRIAL BUILDING AS SHOWN ON THESE PLANS.
- 4. OTHER USES ON THE SITE CURRENTLY INCLUDE MANUFACTURING OF STYROFOAM PRODUCTS BY AMERICAS STYRENICS, A TENANT OF THE PROPERTY.
- 5. THE PURPOSE OF THESE PLANS IS FOR REVIEW BY THE LEDGE LIGHT HEALTH DISTRICT FOR COMPLIANCE WITH THE PUBLIC HEALTH CODE AND THE TOWN OF LEDYARD PLANNING & ZONING COMMISSION FOR A SITE PLAN APPLICATION FOR THE NEW INDUSTRIAL BUILDING. THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND ARE NOT TO BE USED FOR CONTRACT
- 6. FOR EXACT BUILDING DIMENSIONS, SEE BUILDING PLANS PROVIDED.
- 7. THE SUBJECT PROPERTY IS LOCATED WITHIN THE 'I' INDUSTRIAL ZONE. THE PARCEL DOES LIE WITHIN THE COASTAL AREA MANAGEMENT ZONE. A PORTION OF THE SITE IS WITHIN THE FEMA AE (EL 12) AND ZONE X WHILE THE PROPOSED BUILDING IS LOCATED OUTSIDE OF ANY FEMA FLOOD ZONES.
- 8. LOT COVERAGE CALCULATIONS:
- A. ALLOWED @ 70% = 70% X 6,882,480 SF = 4,817,736 SF B. PROVIDED: 2,091,741 (EXISTING) + 72,996 (PROPOSED) / 6,882,480 SF = 31.4 %
- 9. PARKING CALCULATIONS FOR NEW INDUSTRIAL BUILDING:

TOTAL REQUIRED = 17 + 5 = 22

CONDITIONS OF APPROVAL OF THE TOWN OF LEDYARD.

- A. REOUIRED: 1 SPACE PER EMPLOYEE ON MAX SHIFT PLUS 1 SPACE PER FLEET VEHICLE
- 10,000 SF BUILDING: 1 SPACE PER EMPLOYEE ON MAX SHIFT X 10 EMPLOYEES PLUS 1 SPACE PER FLEET VEHICLE X 7 FLEET VEHICLES = 17 SPACES REQUIRED
- 6,000 SF BUILDING: 1 SPACE PER EMPLOYEE ON MAX SHIFT X 3 EMPLOYEES PLUS 1 SPACE PER FLEET VEHICLE X 2 FLEET VEHICLES = 5 SPACES REQUIRED
- OTHER ON-SITE BUILDINGS AND USES WERE NOT EVALUATED FOR PARKING
- 10. THERE SHALL BE NO ACTIVITY WITHIN THE WETLAND OR 100 FOOT INLAND WETLAND UPLAND REVIEW AREA UNLESS OTHERWISE PERMITTED AND AS SHOWN ON THESE PLANS. 11. ANY MODIFICATION TO THE PLANS, INCLUDING ANY RECONFIGURATION OF THE PROPOSED

FLOOR PLAN, IMPOSED BY ANOTHER FEDERAL, STATE OR LOCAL AGENCY SHALL REQUIRE

- ADDITIONAL REVIEW BY TOWN STAFF OR THE COMMISSION, WHICHEVER IS APPROPRIATE. 12. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS INCLUDING A CONNECTICUT D.O.T. ENCROACHMENT PERMIT FOR ALL WORK WITHIN THE D.O.T. RIGHT-OF-WAY PRIOR TO
- 13. THE CONTRACTOR SHALL OBTAIN, REVIEW AND ADHERE TO ALL REQUIREMENTS AND ANY
- 14. NO SIGNAGE IS PROPOSED WITH THIS APPLICATION. ANY FUTURE SIGNAGE SHALL MEET THE ZONING REGULATIONS REQUIREMENTS AND WILL REQUIRE THE NECESSARY PERMITS.
- 15. ANY EXTERIOR LIGHTING SHALL BE FULL CUTOFF AND SHALL BE SHIELDED TO DIRECT LIGHT AND GLARE AWAY FROM ALL ADJOINING PROPERTIES.
- 16. ALL PROPOSED PAVEMENT MARKINGS SHALL BE INSTALLED IN THE LOCATIONS SHOWN WITH DURABLE WHITE PAVEMENT MARKING PAINT AND IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.). THE HANDICAP PARKING SYMBOLS SHALL BE WHITE WITH STANDARD HANDICAP BLUE BACKGROUNDS. ALL TRAFFIC CONTROL SIGNS SHALL CONFORM TO M.U.T.C.D. STANDARDS
- 17. NEW SIDEWALKS, RAMPS AND DRIVEWAYS SHALL BE INSTALLED TO PROVIDE SMOOTH TRANSITION FOR PEDESTRIANS AND VEHICLES.
- 18. ALL CURB/HANDICAP RAMP DESIGNS SHALL CONFORM TO ANSI STANDARDS OR ADA ACT OF 1991, WHICHEVER IS MOST RESTRICTIVE.
- 19. ALL JOINTS BETWEEN EXISTING AND NEW PAVEMENT SHALL BE PROPERLY SAWCUT, TACK COATED AND SEALED AS APPLICABLE. ALL PROPOSED JOINTS SHALL BE FLUSH AND MATCH EXISTING GRADES. SAWCUT LINES MAY BE MODIFIED AS NECESSARY TO MEET CONSTRUCTION REQUIREMENTS UPON REVIEW AND APPROVAL BY THE DESIGN ENGINEER.
- 20. ALL EXISTING CURBING, PAVEMENT, ETC. DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPLACED/RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR.
- 21. ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" STANDARDS.
- 22. ALL OUTSTANDING TECHNICAL ITEMS WILL BE ADDRESSED PRIOR TO APPLYING FOR A BUILDING PERMIT.

#### **UTILITY NOTES:**

- 1. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 PRIOR TO INITIATION OF THIS PROJECT. IF UTILITIES DIFFER FROM THOSE SHOWN ON THIS PLAN, ENGINEER SHALL BE NOTIFIED.
- 2. SCHEMATIC UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, COMMUNICATIONS, WATER) ARE SHOWN ON THESE PLANS FOR INFORMATIONAL PURPOSES ONLY FINAL LOCATIONS WILL BE DETERMINED BY RESPECTIVE UTILITY AUTHORITIES AND INSTALLATION SHALL CONFORM TO LITTLITY AUTHORITY POLICIES AND PRACTICES
- 3. ALL NEW UTILITIES, INCLUDING CATV, WILL BE LOCATED UNDERGROUND.
- 4. ELECTRIC, TELEPHONE AND COMMUNICATION SERVICES SHALL CONFORM TO THE POLICIES AND PRACTICES OF THE APPROPRIATE UTILITY AUTHORITIES.
- 5. UTILITY SERVICE SIZES, MATERIALS, AND INSTALLATIONS SHALL BE APPROVED AND INSPECTED BY THE APPROPRIATE UTILITY COMPANY
- 6. PROVIDE MINIMUM VERTICAL SEPARATION OF 12" FROM WATER MAIN TO DRAINAGE PIPING
- AND 18" TO SEWER PIPING 7. LOCATION AND SIZE OF ALL BUILDING UTILITY CONNECTIONS SHALL BE COORDINATED WITH
- BUILDING ARCHITECTURAL PLANS AND APPROPRIATE UTILITY AUTHORITY 8. WATER LINE INSTALLATION NOTES:
- A. DOMESTIC AND FIRE PROTECTION WATER SERVICES SHALL BE SIZED BASED ON DEMAN AND COORDINATED WITH GROTON UTILITIES, THE PROVIDER THROUGH THE TOWN OF LEDYARD WPCA.
- B. SITE MUST BE AT SUBGRADE BEFORE WATER UTILITIES CAN BE INSTALLED.
- C. ALL WATER MAIN AND SERVICE INSTALLATIONS SHALL CONFORM TO THE CITY OF GROTON, DEPARTMENT OF UTILITIES, WATER MAIN AND SERVICE CONSTRUCTION SPECIFICATIONS, WITH MOST CURRENT REVISIONS
- D. APPROVED BACKFLOW PREVENTERS ARE REQUIRED ON ALL FIRE SPRINKLER AND DOMESTIC WATER LINES.
- E. MINIMUM COVER OVER TOP OF WATER LINES SHALL BE 4.5' FROM FINISHED GRADE.
- F. NO BACKFILLING OF PIPE SHALL BE DONE UNTIL A DESIGNATED REPRESENTATIVE OF THE CITY OF GROTON, DEPARTMENT OF UTILITIES HAS MADE AN INSPECTION AND INSTALLATION HAS BEEN APPROVED.
- G. PIPE SEPARATIONS:
- a. 10' MINIMUM BETWEEN WATER AND SEWER b. 10' MINIMUM BETWEEN WATER AND BUILDINGS
- c. 5' MINIMUM BETWEEN WATER AND CATCH BASINS OR DRAIN PIPES
- H. WATER LINE GATE VALVES TO BE "OPEN LEFT, CLOSE RIGHT"
- I. NEW WATER LINES TO BE CHLORINATED, PRESSURE TESTED, WATER QUALITY SAMPLED, AND FLUSHED PER CITY OF GROTON, DEPARTMENT OF UTILITIES REQUIREMENTS PRIOR TO BEING PLACED INTO SERVICE.
- 9. MINIMUM 6' SEPARATION BETWEEN ELECTRIC AND ALL OTHER PIPES SUCH AS WATER, SEWER
- 10. ALL UTILITIES AND ON-SITE STORM DRAINAGE SHALL BE STRUCTURALLY SUPPORTED TO MINIMIZE DISRUPTION FROM SETTLEMENT OF UNDERLYING SOIL.
- 11. UTILITY SERVICE TRENCHES LOCATED WITHIN 25 FEET OF THE SEPTIC SYSTEM SHALL BE BACKFILLED WITH NON-FREE DRAINING MATERIAL.

#### STORMWATER MANAGEMENT SYSTEM MAINTENANCE PLAN:

A. THE ACCESS DRIVE AND PARKING AREAS SHOULD BE SWEPT AT LEAST ONCE PER YEAR, PREFERABLY AFTER THE END OF THE WINTER SANDING SEASON.

#### 2. CATCH BASINS AND MANHOLES

- A. A CONNECTICUT-LICENSED HAULER SHALL PUMP THE SUMPS OF ON-SITE CATCH BASINS AND MANHOLES, AND SHALL DISPOSE OF THE PUMPING LEGALLY. ROAD SAND MAY BE REUSED FOR WINTER SANDING, BUT MAY NOT BE STORED ON-SITE. AS PART OF THE HAULING CONTRACT, THE HAULER SHALL NOTIFY THE PROPERTY OWNER IN WRITING WHERE THE MATERIAL IS BEING DISPOSED.
- B. EACH CATCH BASIN SHALL BE INSPECTED EVERY FOUR MONTHS, WITH ONE INSPECTION OCCURRING DURING THE MONTH OF APRIL. ANY DEBRIS OCCURRING WITHIN ONE FOOT FROM THE BOTTOM OF EACH SUMP SHALL BE REMOVED BY VACUUM "VACTOR" TYPE OF MAINTENANCE EQUIPMENT.

#### INFILTRATION

- A. THE INFILTRATION BASIN SHALL BE INSPECTED EVERY SIX MONTHS AND/OR AFTER STORM EVENTS OF 2 INCHES OF RAINFALL OR GREATER. INSPECTIONS SHALL INCLUDE THE FOLLOWING:
- a. INSPECT FOR STANDING WATER OR OTHER EVIDENCE OF CLOGGING.
- b. CHECK FOR SEDIMENT ACCUMULATION, TRASH, AND DEBRIS.
- c. CHECK FOR BLOCKAGES, STRUCTURAL INTEGRITY, AND EVIDENCE OF EROSION AT INLETS, OUTLETS, AND OVERFLOW SPILLWAYS;
- B. REGULAR MAINTENANCE INCLUDES THE FOLLOWING:
- a. PRUNE TREES AND SHRUBS AS NEEDED. b. REMOVE EXCESS LEAVES, DEBRIS AND EXCESS SEDIMENT FROM THE BOTTOM OF THE BASIN AS NECESSARY AND CUT OR MOW MEADOW GRASSES BETWEEN NOVEMBER 15-APRIL 1. LEAVE STEM STUBBLE 12"-18" FOR POLLINATOR NESTING HABITAT. PLANT MATTER SHALL BE LEFT IN PLACE OVER WINTER MONTHS TO INSULATES THE SOIL AND ADD ORGANIC MATTER TO THE SOIL.
- KILLING VEGETATION AND AESTHETICS. c. REMOVE SEDIMENT GREATER THAN 3.0 INCH DEEP IN MARCH-APRIL IN A MANNER TO MINIMIZE DAMAGE TO VEGETATION. DISPOSE OF SEDIMENT
- OFF-SITE IN ACCORDANCE WITH ALL LOCAL AND STATE REQUIREMENTS. d. INSPECT SOIL AND REPAIR ERODED AREAS SEASONALLY OR AS NECESSARY.

REMOVAL CRITERIA SHALL INCLUDE WHEN PLANT MATTER IS SMOTHERING OR

- e. REMOVE ANY INVASIVE SPECIES (INCLUDING ROOTS) THAT HAVE BECOME ESTABLISHED WITHIN THE BASIN AND EMBANKMENTS.
- f. ADD SUPPLEMENTAL SEED AS NEEDED TO MAINTAIN 80% AREA COVER.
- g. IF THERE IS STANDING WATER IN THE INFILTRATION AREA 48 HOURS AFTER STORM EVENT, ROTOTILL OR CULTIVATE SURFACE OF FILTER MEDIA TO BREAK UP ANY HARD PACKED SEDIMENT AND RE-VEGETATE
- h. DO NOT ADD LIME, FERTILIZER, HERBICIDE OR PESTICIDES. THE USE OF HERBICIDE IS RESTRICTED TO INVASIVE NON-NATIVE PLANT CONTROL UNDER THE DIRECTION OF A QUALIFIED ENVIRONMENTAL PROFESSIONAL

#### 4. HYDRODYNAMIC SEPARATOR

- A. THE SEPARATOR SHALL BE CLEANED PERIODICALLY DURING CONSTRUCTION, AND AT THE END OF CONSTRUCTION ONCE THE LANDSCAPED AREAS ARE FULLY STABILIZED.
- B. FOR THE FIRST YEAR OF OPERATION FOLLOWING CONSTRUCTION, THE SEPARATOR SHALL BE INSPECTED ONCE EVERY 4 MONTHS FOR THE MONTHS OF NOVEMBER. MARCH, AND JULY. A GRADUATED MEASURING DEVICE SHALL BE INSERTED INTO MANHOLE AND MEASUREMENTS OF ANY ACCUMULATIONS WILL BE RECORDED. CLEANING WILL OCCUR WHEN DEBRIS HAS ACCUMULATED TO A DEPTH OF 20" OR
- C. AFTER THE FIRST YEAR OF OPERATION, THE SEPARATOR SHALL BE INSPECTED A MINIMUM OF TWICE PER YEAR IN THE SAME MANNER AS DESCRIBED ABOVE. WHEN THE DEPTH OF ACCUMULATION REACHES 20", A CLEAN-OUT SHOULD BE PERFORMED. AND SEDIMENT PROPERLY DISPOSED OF OFF-SITE. DEBRIS WILL BE REMOVED BY VACUUM "VACTOR" TYPE OF EQUIPMENT. THE MANHOLE SHOULD THEN BE PRESSURE WASHED TO REMOVE REMAINING SEDIMENT AND DEBRIS AND THE WATER SHOULD THEN BE VACUUMED OUT. ONCE CLEANING IS COMPLETE THE MANHOLE SHOULD BE REFILLED WITH WATER.
- D. A DETAILED MAINTENANCE LOGBOOK SHALL BE KEPT FOR THE UNIT. INFORMATION IS TO INCLUDE THE DATE OF INSPECTION, RECORD OF GRIT DEPTH, CONDITION OF TANK, OBSERVATION OF ANY FLOATABLE DEBRIS, AND DATE OF CLEANING PERFORMED.

#### DRAINAGE TEST PIT RESULTS OBSERVED BY LOUREIRO ENGINEERING ASSOCIATES ON JUNE 2, 2023

TEST PIT 'TP-G1' 0- 28" DARK BROWN SILT, ORGANICS

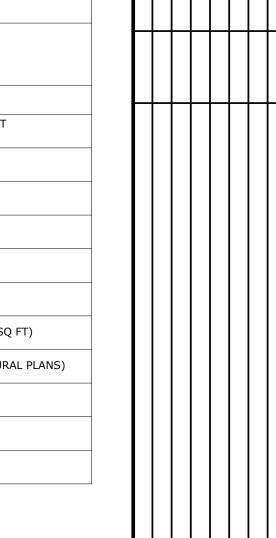
28"- 31" LIGHT BROWN SILTY SAND, SOME GRAVEL 31"- 98" LIGHT GREY FINE TO MEDIUM SAND, SOME COBBLES, TRACE MOLLUSK SHELLS

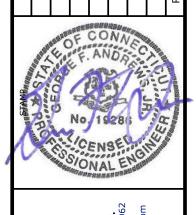
GROUNDWATER @ 98" NO MOTTLING PERMEABILITY SAMPLE TAKEN @ 62"

TEST PIT 'TP-G2' 0-32" DARK BROWN SILT, ORGANICS 32"-35" LIGHT BROWN SILTY SAND, SAND GRAVEL 35"-105" LIGHT GREY FINE TO MEDIUM SAND, SOME COBBLES

GROUNDWATER @ 105" NO MOTTLING PERMEABILITY SAMPLE TAKEN @ 50"

	ZONING DATA TA	ABLE		
	'I' INDUSTRIAL ZOI USE - COMMERCIA PARCEL ID 61-2120-1	L L		
ITEM	REQUIRED	PROVIDED		
LOT AREA	200,000 SQ FT (4.59 AC)	6,882,480 SQ FT (158 AC)		
FRONTAGE	200 FT	3700 ± FT		
LOT WIDTH	200 FT	> 200 FT		
FRONT SETBACK	35 FT	63.91 FT		
SIDE SETBACK	25 FT	160.2 FT		
REAR SETBACK	25 FT	116.8 ± FT		
LOT COVERAGE (%) (SEE SITE NOTE 5)	70% (4,817,736 SQ FT)	31.4 % ( 2,164,737 SQ FT)		
BUILDING HEIGHT	65 FT	32 ± FT. (SEE ARCHITECTURAL PLANS		
PARKING (# OF SPACES) (SEE SITE NOTE 6)	22 SPACES	22 SPACES		
WATER SUPPLY		MUNICIPAL		
SANITARY DISPOSAL	0	ONSITE SSDS		

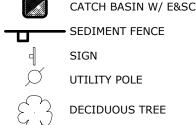




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111		<sub>эате</sub> 5/2024	ыте 5/2024

BBR

--1— EXISTING CONTOUR --5-- EXISTING INDEX CONTOUR x6.1 NEW SPOT GRADE ——— NEW MINOR CONTOUR NEW MAJOR CONTOUR ----- BUILDING SETBACK LINE ——E—— UNDERGROUND ELECTRIC



AC ACRES

C.O.

BIT CONC BITUMINOUS CONCRETE

TOP OF CURB

CLEAN OUT

INVERT

BOTTOM OF CURB

FINISHED FLOOR

NOW OR FORMERLY

MORE OR LESS

MINIMUM

SQUARE FEET

TYPICAL

CONNECTICUT HIGHWAY DEPARTMENT MONUMENT

CONNECTICUT LIGHT & POWER

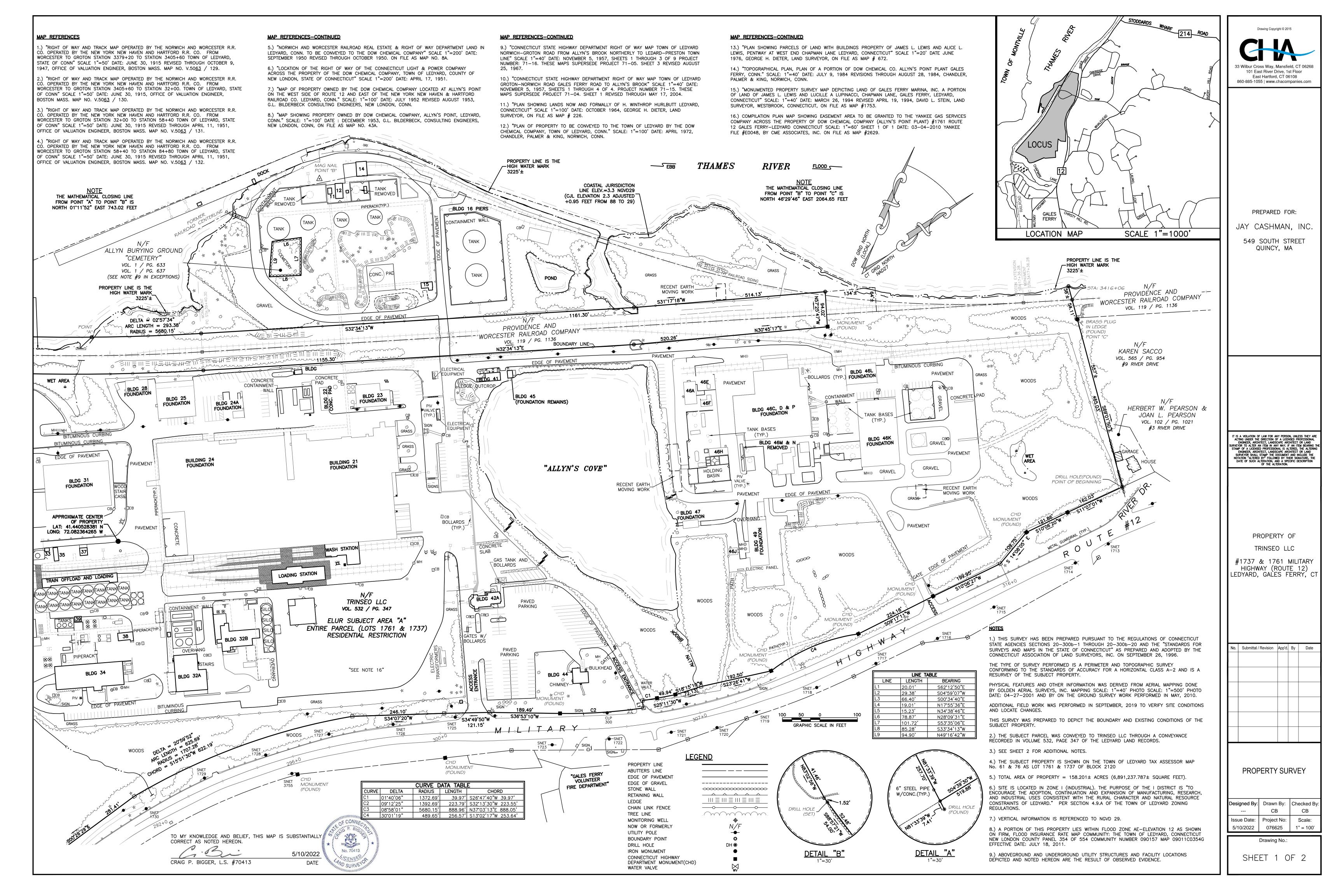
LEDYARD LAND RECORDS

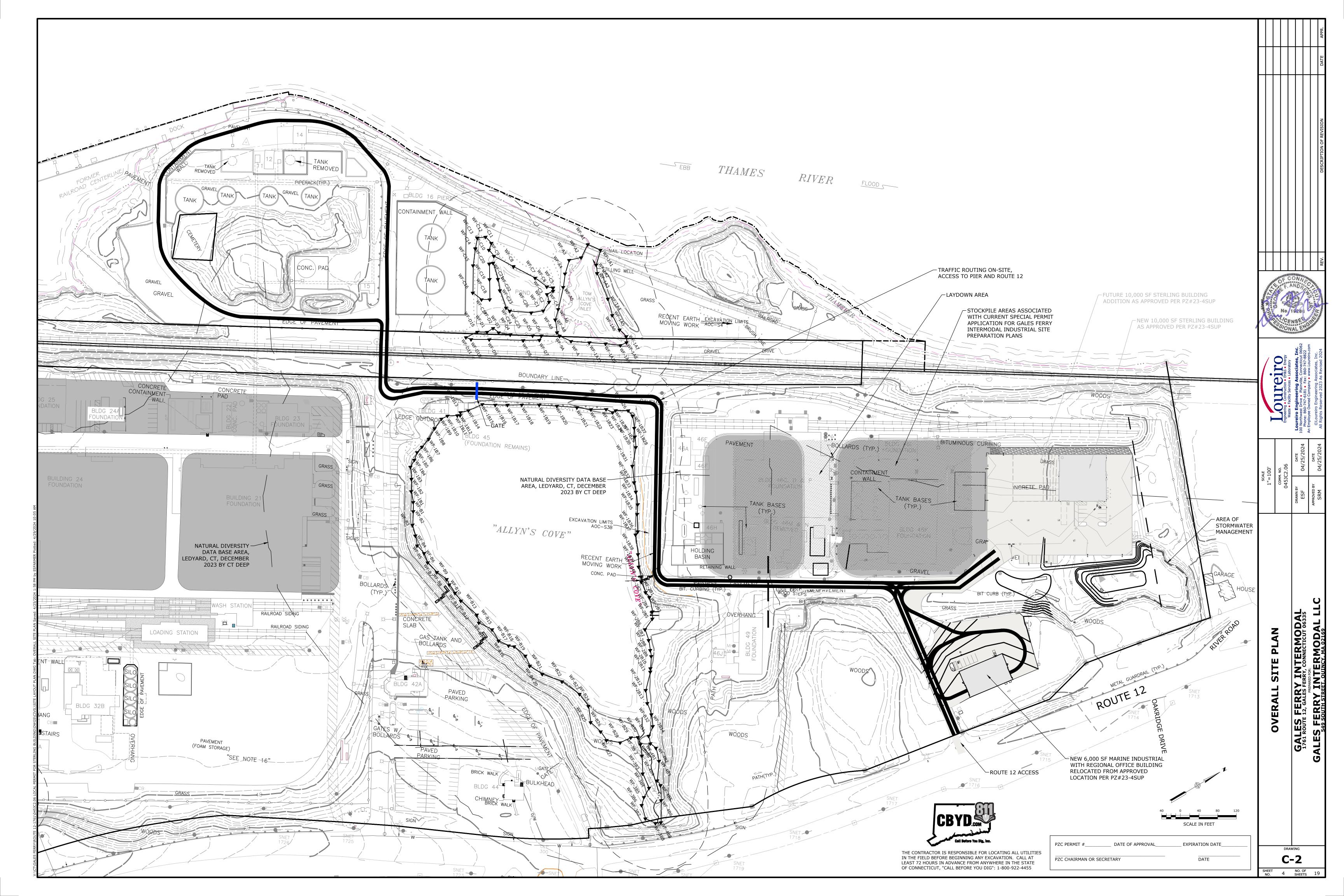
UTILITY POLE DECIDUOUS TREE

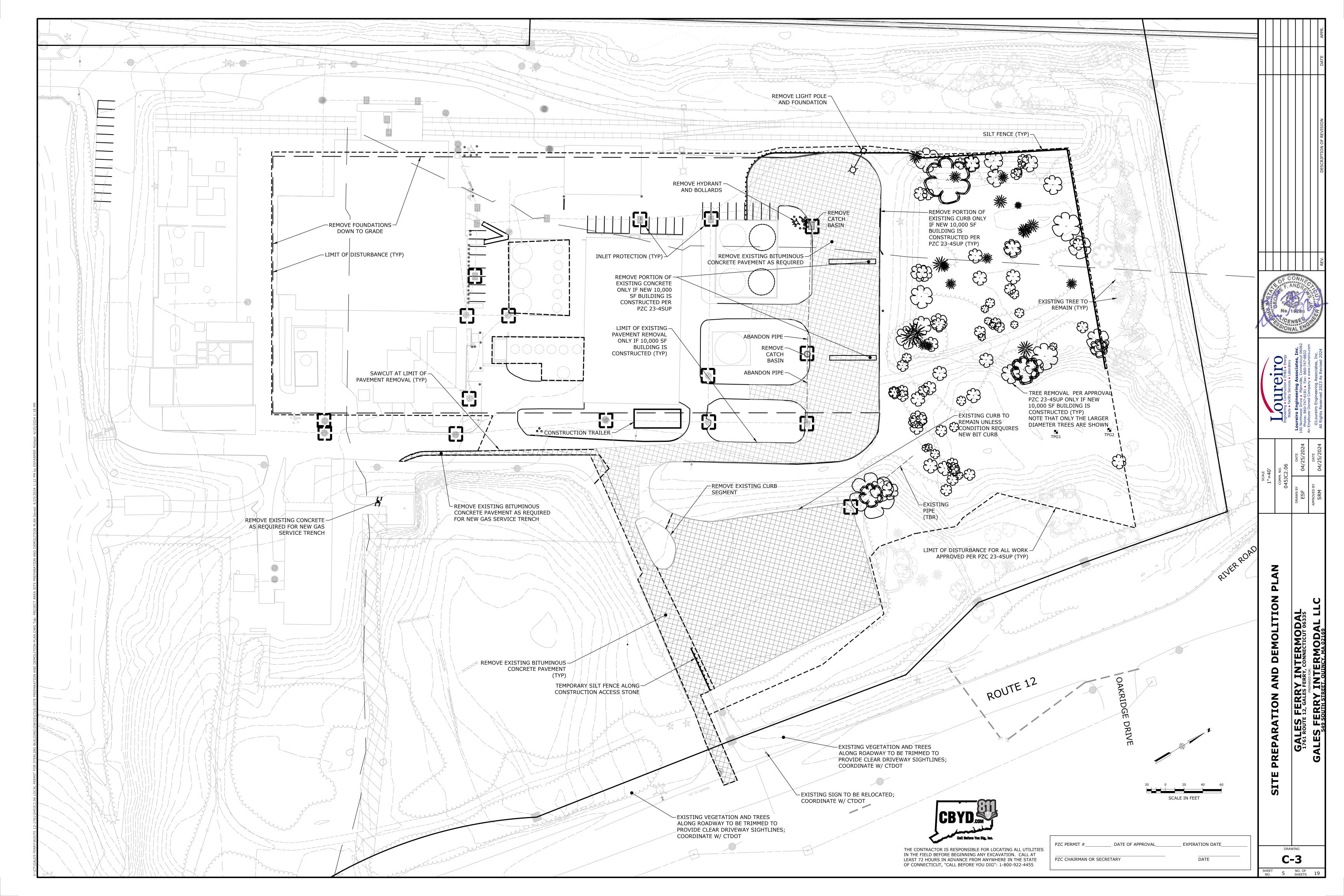
SOIL TYPE - TAKEN FROM NATURAL RESOURCES CONSERVATION SERVICE. WEBSOIL SURVEY, NATIONAL COOPERATIVE SOIL SURVEY

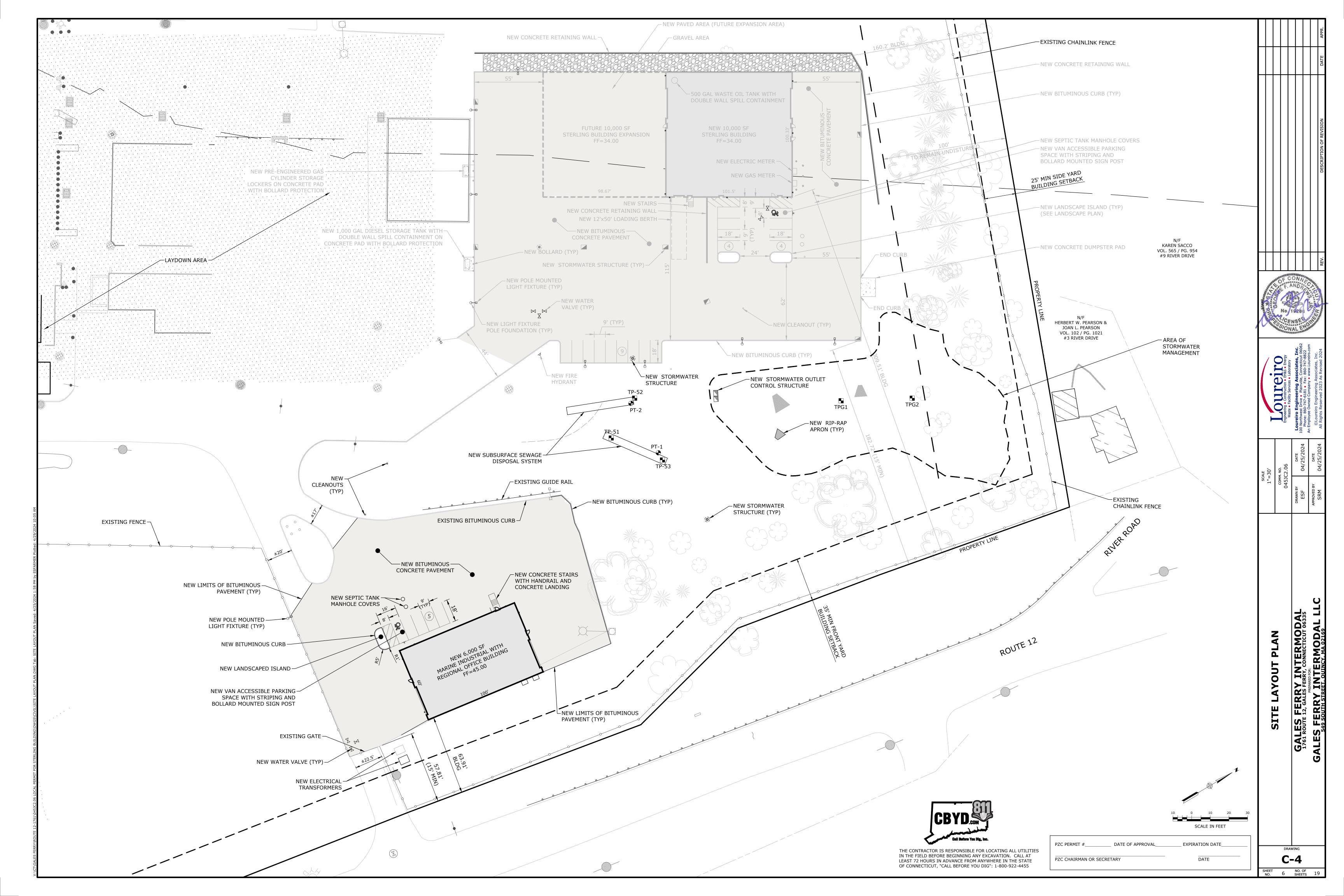
**C-1** 

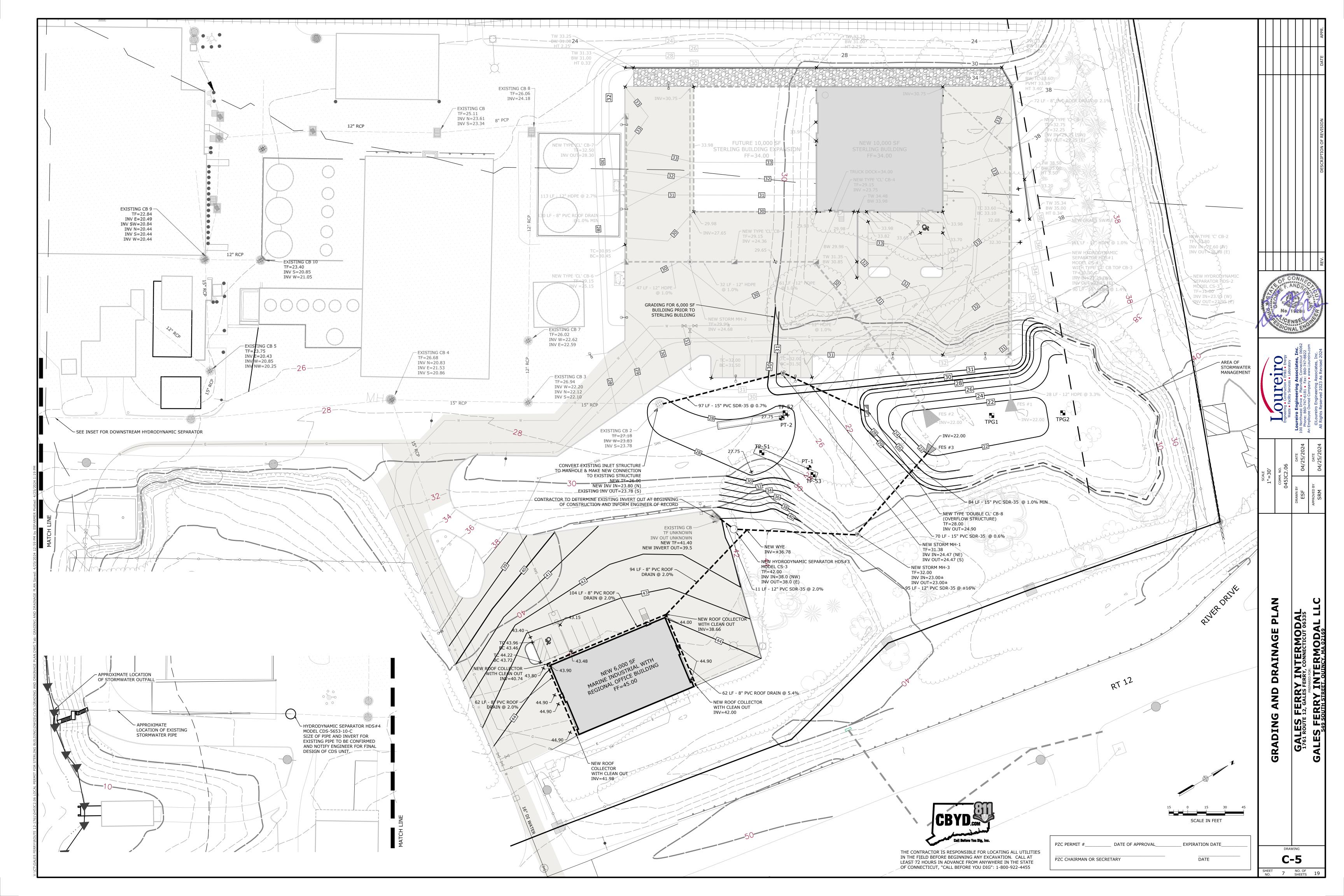
PZC PERMIT #\_ \_ DATE OF APPROVAL\_ EXPIRATION DATE PZC CHAIRMAN OR SECRETARY DATE

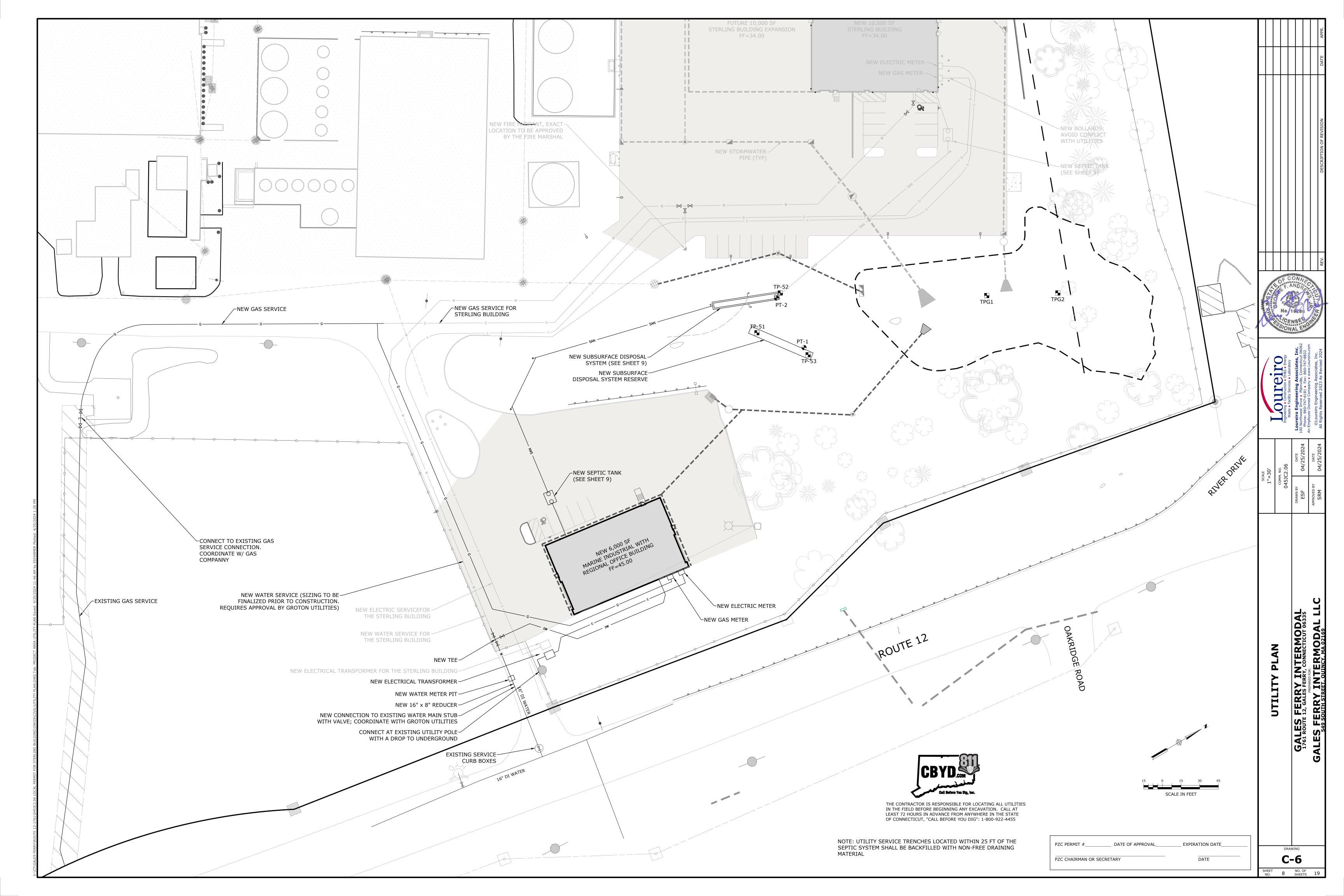


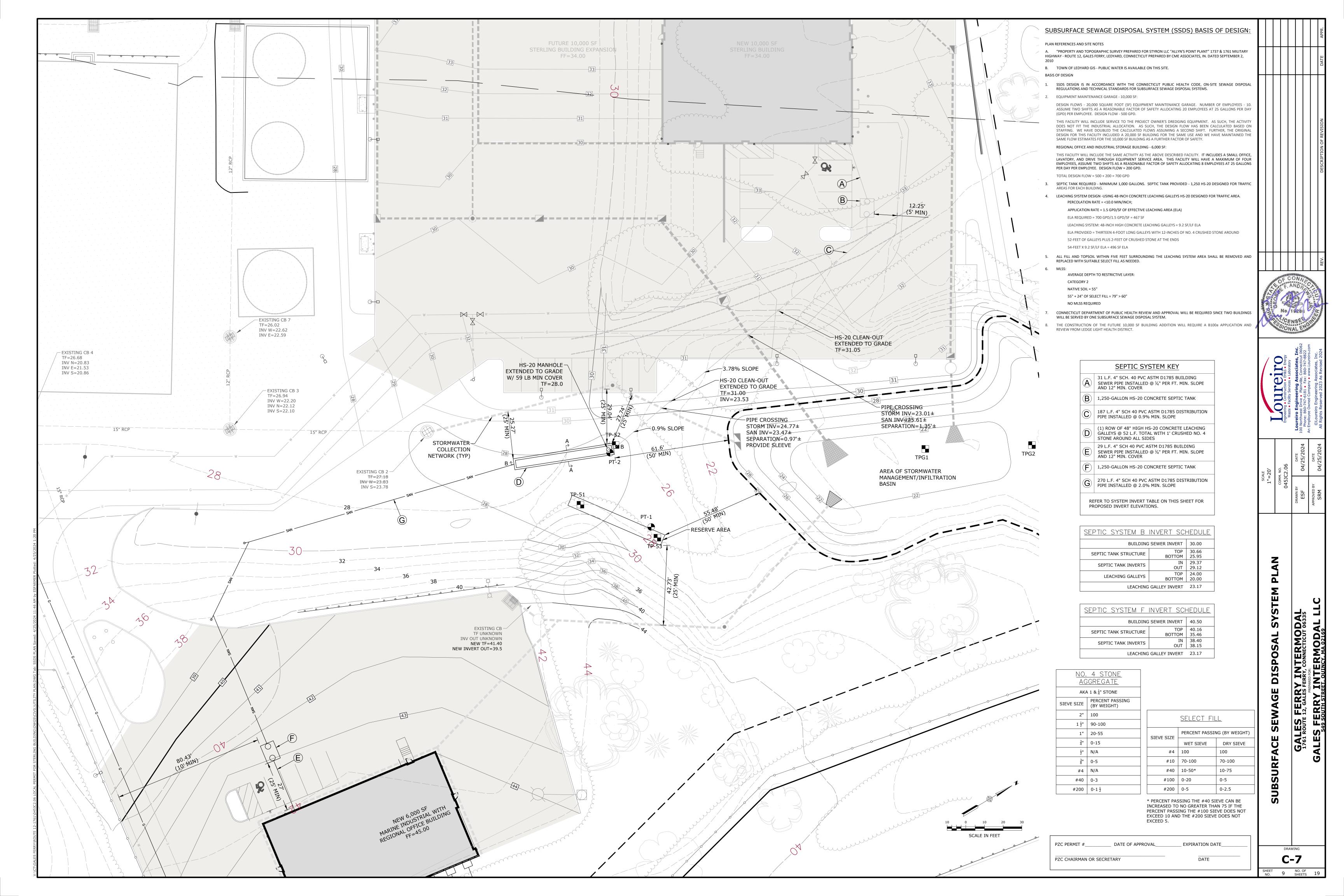


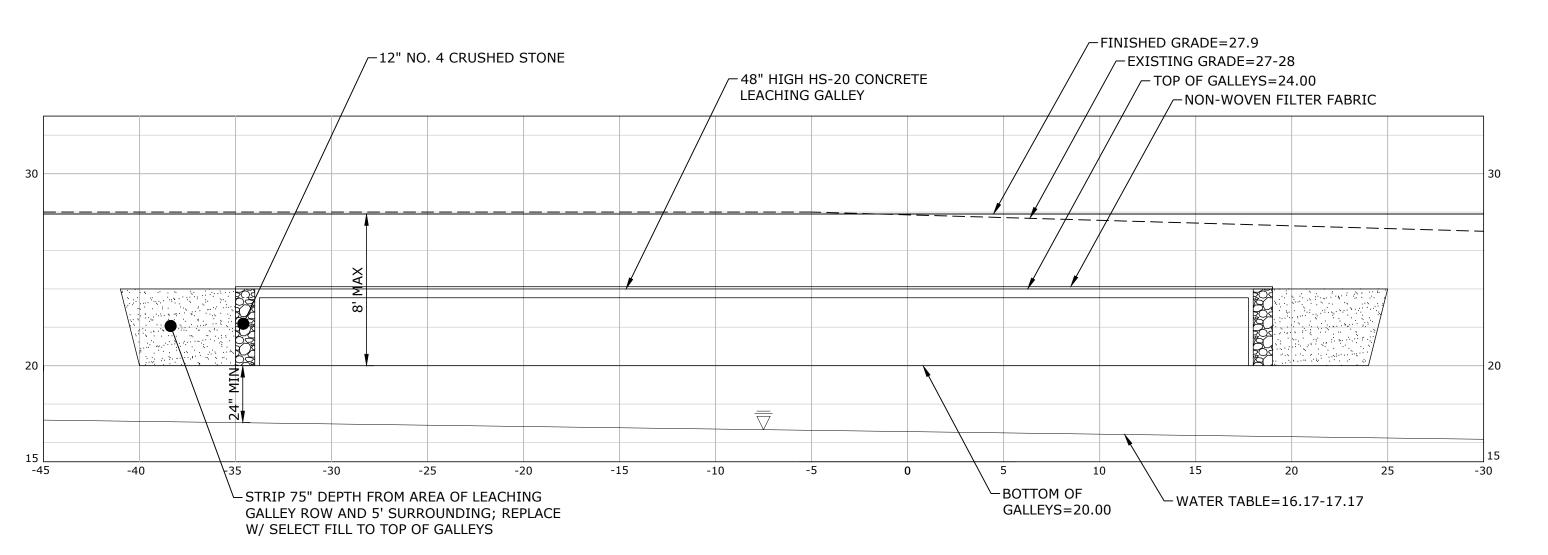












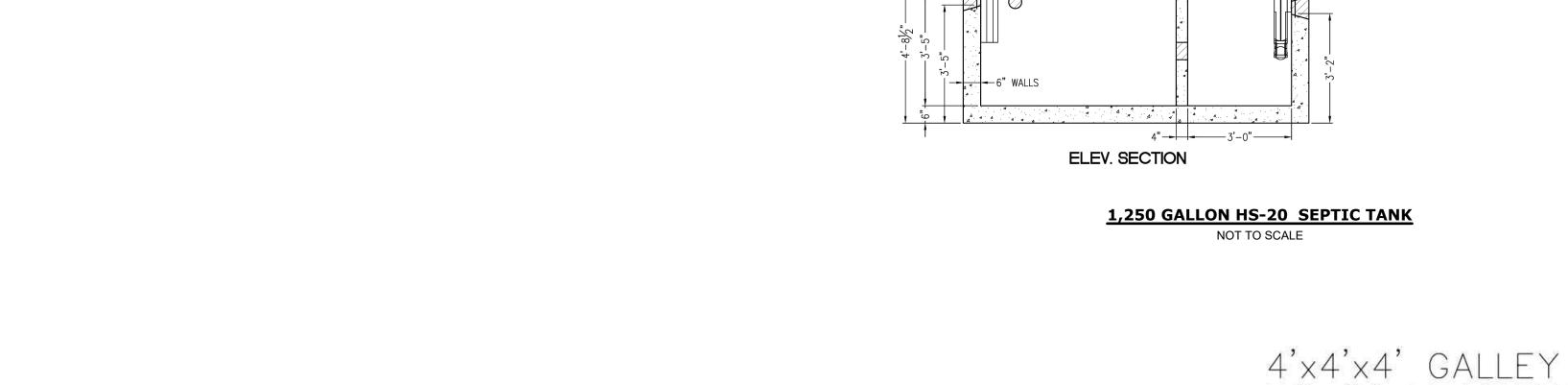
## B-B SECTION VIEW SCALE: 1"=5'H&V

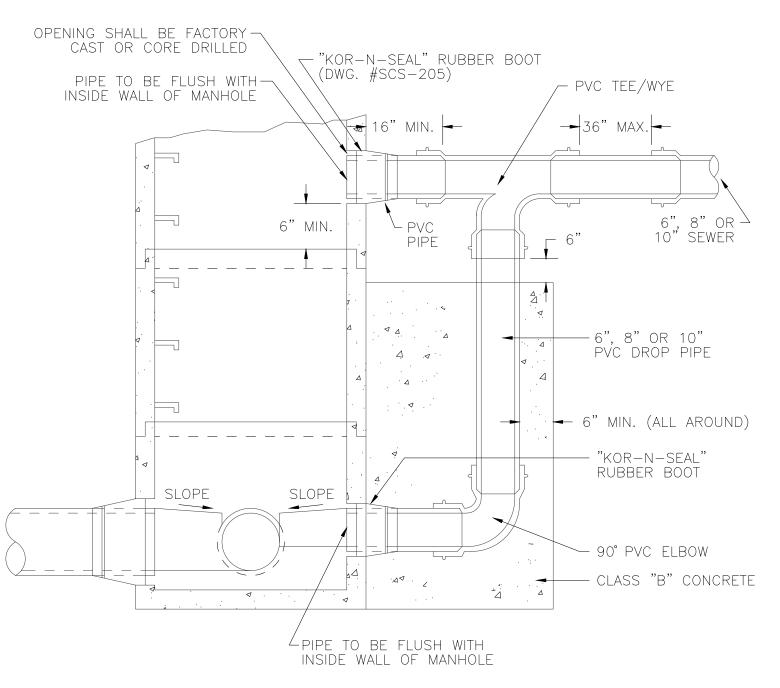
## SUBSURFACE SEWAGE DISPOSAL SYSTEM (SSDS) CONSTRUCTION NOTES:

1) REFER TO SOIL EROSION AND SEDIMENT CONTROL PLAN FOR EROSION PROTECTION.

MAY INTERFERE WITH THE PROPER FUNCTION OF THE SYSTEM.

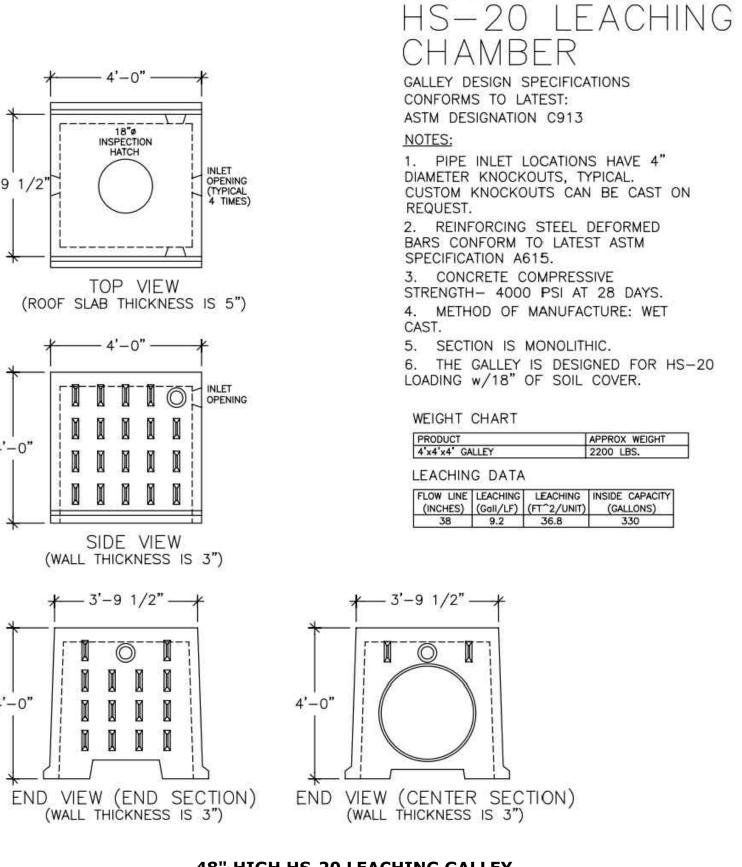
- 2) PROCEDURES FOR THE INSTALLATION OF FILL:
- 2.1) NO EXCAVATION SHALL OCCUR PRIOR TO NOTIFYING "CALL-BEFORE-YOU-DIG" AT 1-800-922-4455 OR 811.
  - 2.2) INSTALL EROSION CONTROL ALONG THE DOWN-GRADIENT LIMITS OF FILL IN ACCORDANCE WITH THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
  - 2.3) STRIP ALL VEGETATION, 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
  - 2.4) 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.
  - 2.5) SELECT FILL SHALL BE PLACED WITHIN OR ADJACENT TO THE LEACHING SYSTEM PER THE PLAN AND SHALL MEET THE REQUIREMENTS OF SECTION VIII.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.
  - 2.6) 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.
  - 2.7) NATIVE SOIL OR COMMON FILL SHALL BE USED AS BACKFILL BEYOND THE LIMITS OF SELECT FILL AND BELOW THE TOPSOIL LAYER.
- 3) NO UTILITIES SHALL BE INSTALLED THROUGH ANY PORTION OF THE LEACHING SYSTEM.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) 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.
- 8) 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.
- 9) UTILITY TRENCHES AND WATER MAINS/SERVICES LOCATED WITHIN 25 FT OF THE SEPTIC SYSTEM SHALL BE BACKFILLED WITH NON-FREE DRAINING MATERIAL.
- 10) ALL TANKS REQUIRING RISERS SHALL MAINTAIN THE ORIGINAL COVERS ON THE TANKS, OR INSTALL A SECONDARY SAFETY DEVICE IN THE RISER TO PREVENT INDIVIDUALS FROM FALLING INTO TANK. ALL BELOW GRADE TANK OR RISER COVER HANDLES SHALL CONTAIN OR BE FILLED WITH A MATERIAL THAT CAN BE LOCATED WITH A METAL DETECTOR.
- 11) PLACEMENT OF PIPE JOINTS WHERE DRAINAGE OR WATER LINES CROSS OVER ANY SSDS PIPES SHALL BE AVOIDED.





DROP SEWER MANHOLE

NOT TO SCALE



## 48" HIGH HS-20 LEACHING GALLEY NOT TO SCALE

1,250 GALLON

**HS-20 SEPTIC** 

TANK DESIGN SPECIFICATIONS CONFORMS TO LATEST:

JOINT SEALANT IS BUTYL RUBBER

MASTIC TYPE SEAL THAT CONFORMS TO LATEST AASHTO SPEC. M-198.
4. REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPEC. A706, GRADE 60, COVER 1½" UNLESS NOTED.
5. CONCRETE COMPRESSIVE STRENGTH-5,000 PSI AT 28 DAYS SELF CONSOLIDATING CONCRETE.

6. METHOD OF MANUFACTURE:

8. DESIGNED FOR AASHTO HS-20 LOADING WITH 6" to 60" OF SOIL COVER. 9. ALL PIPING PROVIDED AND INSTALLED BY CONTRACTOR.

WEIGHT CHART

TANK W/BAFFLE 24,900 LBS.

10. LIFTING - LIFTING LOOPS IN ROOF SLING LIFTING NOTCHED IN BASE SECTION

APPROX. WEIGHT

POLYLOK FILTER 7. BOTTOM SECTION IS MONOLITHIC.

ASTM DESIGNATION C1227

TANK

4"ø POLYLOK

-OPTIONAL

CAST IRON FRAME & COVER AVAILABLE FROM UCP

CONCRETE RISER TO GRADE

AVAILABLE FROM UCP

-(3) LIFTING LOOPS

(3) 24"SQUARE OPENINGS

4"ø POLYLOK

SEAL WITH (1) BAFFLE

BAFFLE INSTALLED BY CONTRACTOR

**ROOF VIEW** 

IN ROOF

Engineering • Construction • EH&S • Energy
Waste • Facility Services • Laboratory

Loureiro Engineering Associates, Inc.

100 Northwest Drive • Plainville, Connecticut 6066
Phone: 860-747-6181 • Fax: 860-747-8822
An Employee Owned Company • www.Loureiro.com

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DRAWN BY DATE 104/25/2024 AAPROVED BY DATE AAPROVED BY DA

DISPOSAL SECTIONS, DETAILS & NOT

GALES FERRY II
1761 ROUTE 12, GALES FERRY
PREPARED FO

AGE

DRAWING C-8

SHEET NO. OF NO. OF NO. 10 SHEETS 19

#### \* ROOTS TO 93" \*GROUNDWATER AT 130" \*NO REFUSAL OBSERVED BY LOUREIRO ENGINEERING ASSOCIATES AND LEDGE LIGHT HEALTH DISTRICT ON MARCH 24, 2023 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 EST PIT LOG: TP-53 OBSERVED BY LOUREIRO ENGINEERING ASSOCIATES AND LEDGE IGHT HEALTH DISTRICT ON MARCH 24, 2023 DEPTH OBSERVATIONS 0-79" FILL

105"-128" ORANGE BROWN MEDIUM-COARSE SAND WITH GRAVEL AND COBBLES

**A-A SECTION VIEW** 

SCALE: 1"=5'H&V

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

(INCHES)

10.75

11.875 12.125

12.375

13.25 13.5

13.75

14.25

<2" OF WATER REMAINING

PERC RATE = 4.0 MIN/INCH

(INCHES)

13.5 14.375

15.125

15.875 16.375

17.5

PERC RATE = 2.0 MIN/INCH

<u>PT-2</u> DEPTH: 108"

(MIN)

RATE

(MIN/IN)

(MIN/IN)

OBSERVED BY LOUREIRO ENGINEERING ASSOCIATES AND LEDGE

75"-93" TAN GREY FINE SANDY LOAM WITH GRAVEL

24"-68" DARK BROWN FINE SANDY LOAM. CONCRETE DEBRIS W/ REBAR FOUND

93"-150" ORANGE BROWN MEDIUM-COARSE SAND AND GRAVEL W/ COBBLES

LIGHT HEALTH DISTRICT ON MARCH 7, 2023

68"-75" | BURIED TOPSOIL LAYER

79"-105" ORIGINAL TOPSOIL

\*GROUNDWATER AT 128"

\*ROOTS TO 105"

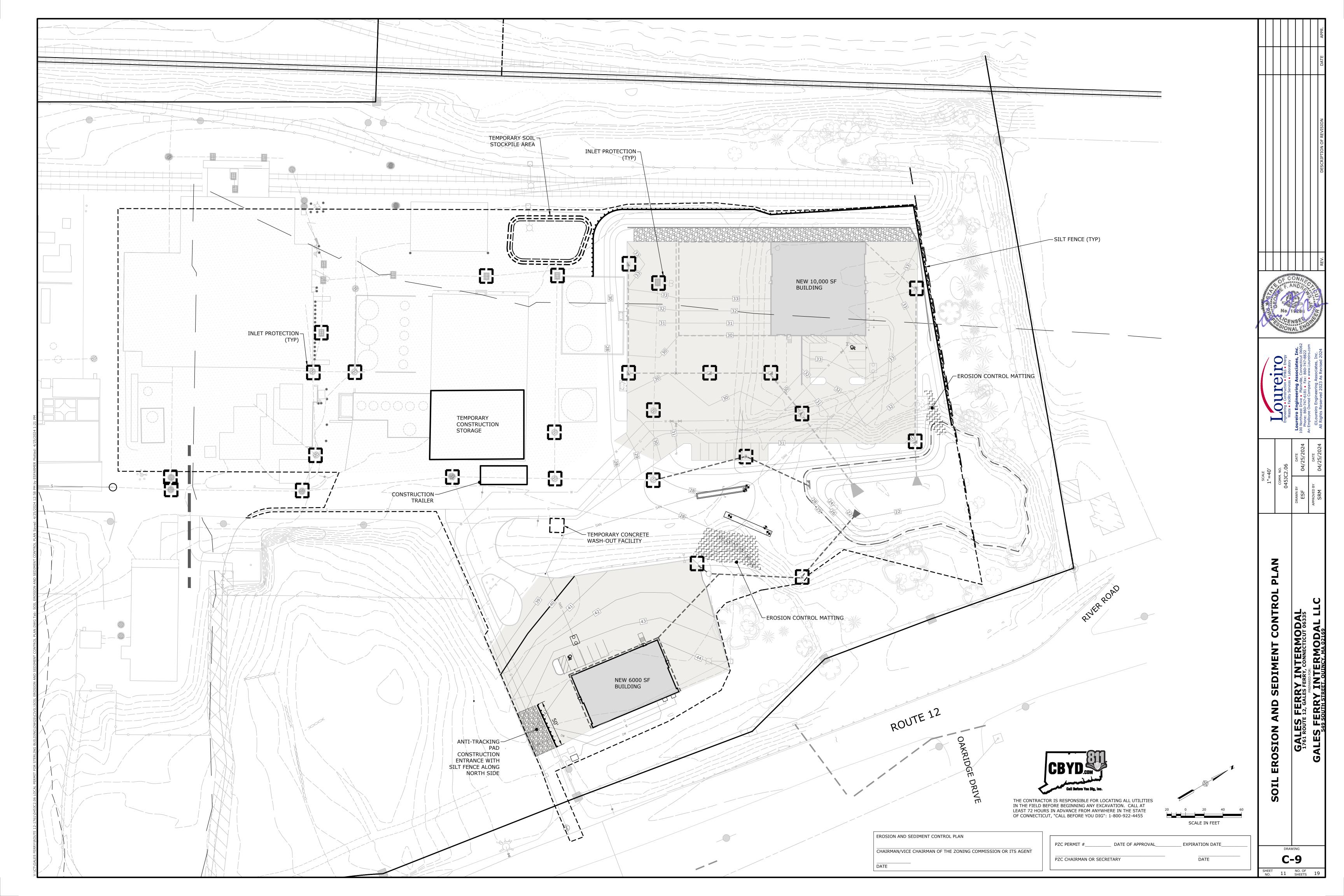
\*NO REFUSAL
\*NO MOTTLING

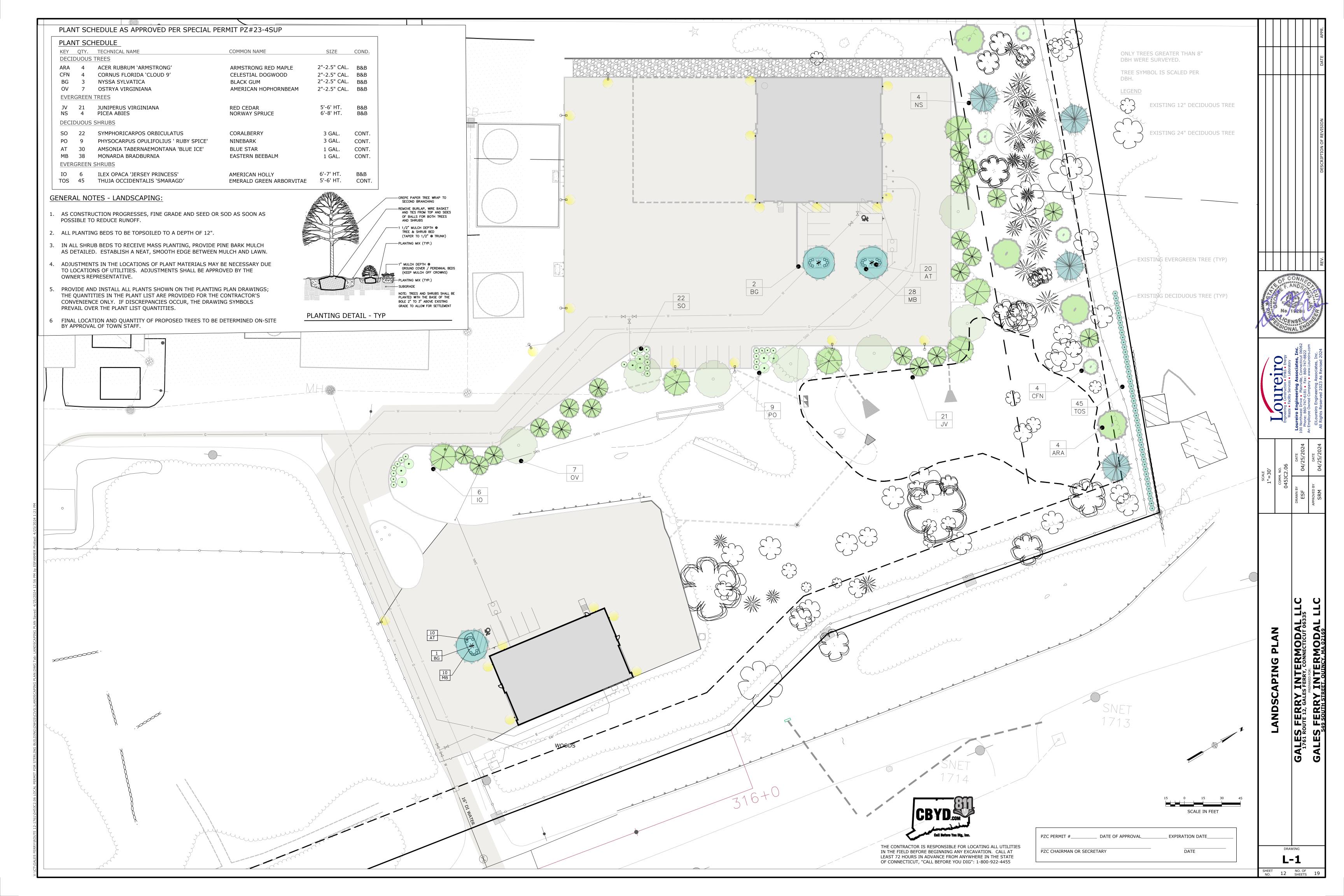
DEPTH OBSERVATIONS

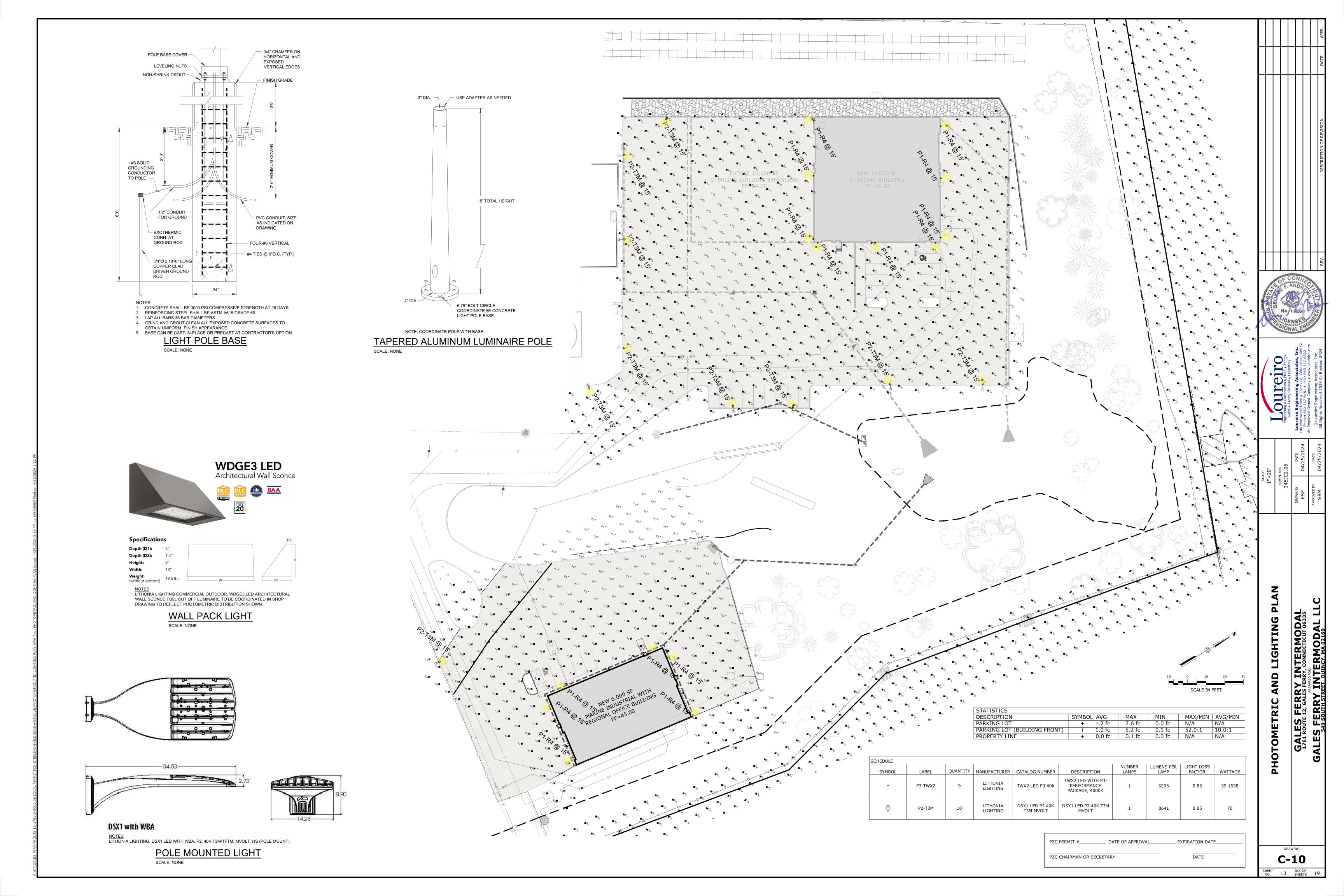
0-24" GRAVEL, FILL

<u>PT-1</u> DEPTH: 122"

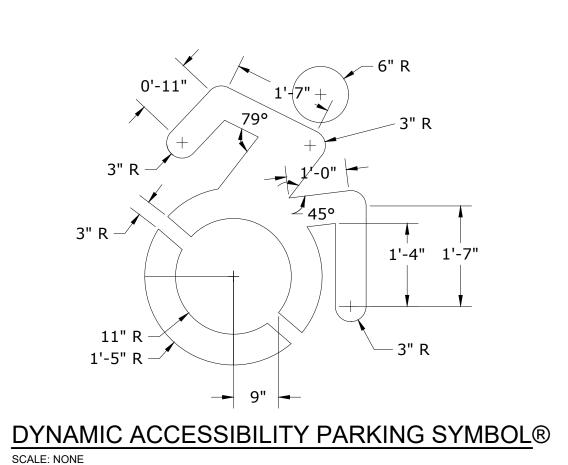
(MIN)











ROLLED HIGH TENSILE STEEL WITH 3/8" DIAMETER HOLES SPACED 1" ON CENTER

SECTION A-A

36" MAX

∼ SIGN PER PLAN

SIGN MUST BE INSTALLED

PERPENDICULAR TO TRAVEL

SIGNS INSTALLATIONS WITHIN THE

STATE OF CONNECTICUT RIGHT OF WAY SHALL INCLUDE BREAKAWAY

ALL SIGNS WITHIN THE TOWN R.O.W.

ARE TO BE HIGH INTENSITY PRISMATIC,

INSTALLED WITH BREAKAWAY POSTS

ACCORDANCE WITH SECTION M.18 OF

AND IN ACCORDANCE WITH THE

SIGN MATERIALS SHALL BE IN

SPECIFICATIONS FOR ROADWAY

THE CONNDOT STANDARD

BRIDGES AND INCIDENTAL

CONSTRUCTION.

M.U.T.C.D.

DIRECTIONAL SIGN

- REFLECTIVE

LETTERING

**GREEN BAKED ENAMEL FLANGED** CHANNEL POST —

MOUNT SIGN WITH

TAMPER PROOF

HARDWARE

**GREEN BAKED** 

OUTERMOST EDGE OF SIGN

MAY NOT PROTRUDE PAST

THE BACK FACE OF CURB

**PAVEMENT** 

BACKFILL -

CONCRETE BASE (12" SQ) -

SIGN POST

SCALE: NONE

**ENAMEL FLANGED** CHANNEL POST

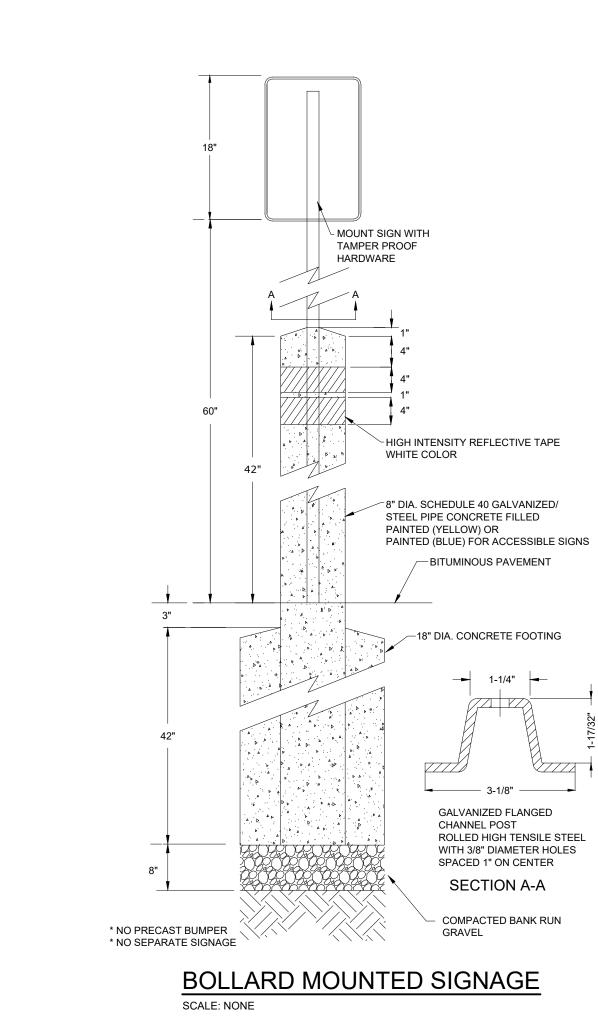
NEW ENGINEER GRADE

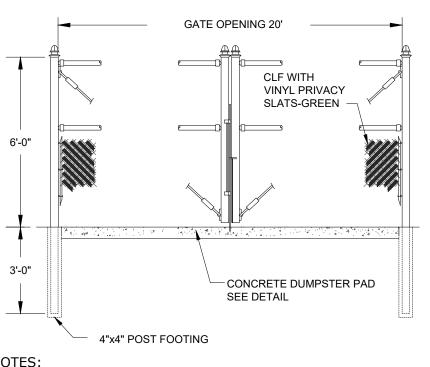
.080 ALUMINUM SIGN



SIGN DETAIL SCALE: NONE

STOP SIGN:



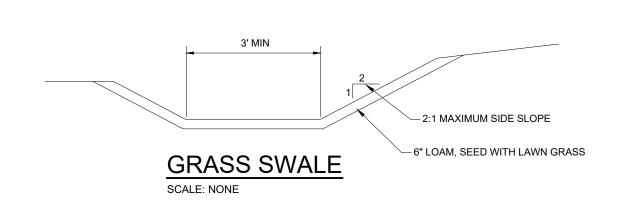


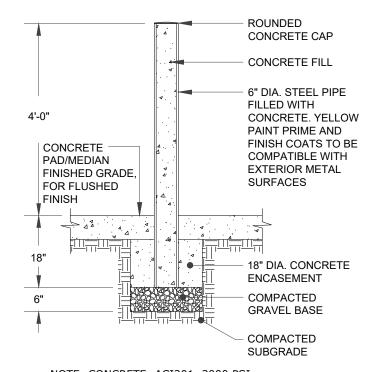
1. DUMPSTER ENCLOSURE TO BE EQUIPPED WITH VINYL PRIVACY SLATS - GREEN, ALL SIDES. 2. REFER TO CHAIN LINK FENCE DETAIL FOR ADDITIONAL DETAILS. 3. DEPTH OF THE ENCLOSURE IS 8'.

#### **DUMPSTER ENCLOSURE DETAIL** SCALE: NONE

4,000 PSI CONCRETE	1/4" PER FOOT CROSS-SLOPE
WOOD FLOAT FINISH	3"
6x6 W 2.9 x W 2.9 GALVANIZED OR EPOXY	x x x x x x x x x x x x x x x x x x x
COATED MESH	\(\frac{1}{2}\) \(\frac{1}2\) \(\frac{1}{2}\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}2\) \(\fraca
COMPACTED	
GRAVEL BASE	// <b>\</b>
COMPACTED SUBGRADE OR UNDISTURBED MATER	

SEE PLAN FOR LOCATION AND SIZE OF PAD. CONCRETE DUMPSTER PAD DETAIL SCALE: NONE



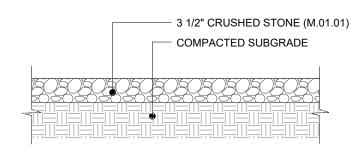


NOTE: CONCRETE: ACI301, 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS STEEL BOLLARD

SCALE: NONE

### NOTES:

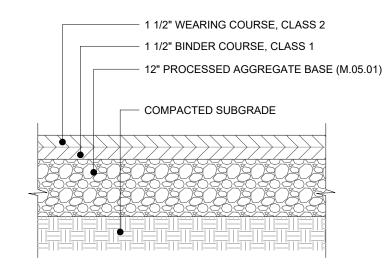
- 1. ALLOWABLE DESIGN STRESSES: CLASS "A" CONCRETE BASED ON f'c =
- 3000 psi. REINFORCEMENT: (ASTM A 615 GRADE 60) fs = 24000 psi 2. REINFORCEMENT COVER: ALL STEM REINFORCEMENT SHALL HAVE 2" COVER UNLESS OTHERWISE NOTED. ALL FOOTING REINFORCEMENT
- SHALL HAVE 3" COVER. 3. AFTER EXCAVATION CONTRACTOR 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.



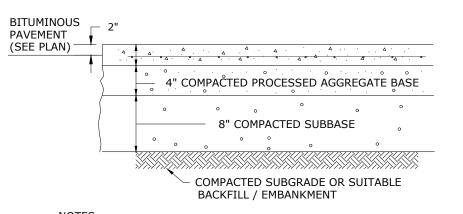
1. CRUSHED STONE SHALL CONSIST OF WASHED NO. 6 STONE AND SHALL BE IN ACCORDANCE WITH THE CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATION SECTION M.01.01 ALL COMPACTION TO BE 95% STANDARD PROCTOR DENSITY

## **GRAVEL SURFACE X-SECTION**

SCALE: NONE

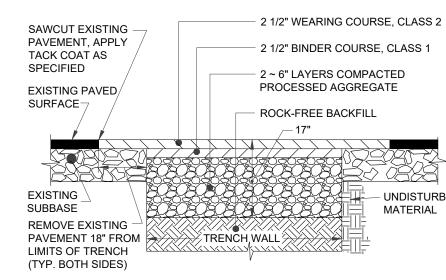


**BITUMINOUS CONCRETE PAVING** 



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

> **CONCRETE PAD** SCALE: NONE

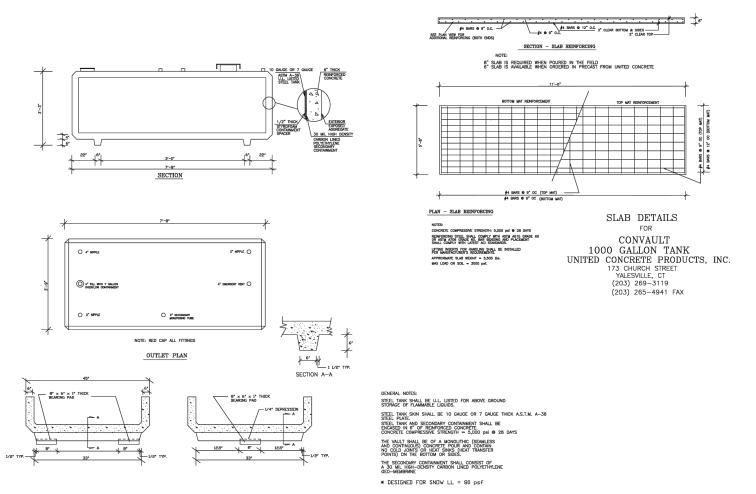


PAVEMENT REPLACEMENT DETAIL SCALE: NONE



BITUMINOUS CONCRETE LIP CURB (BCLC)





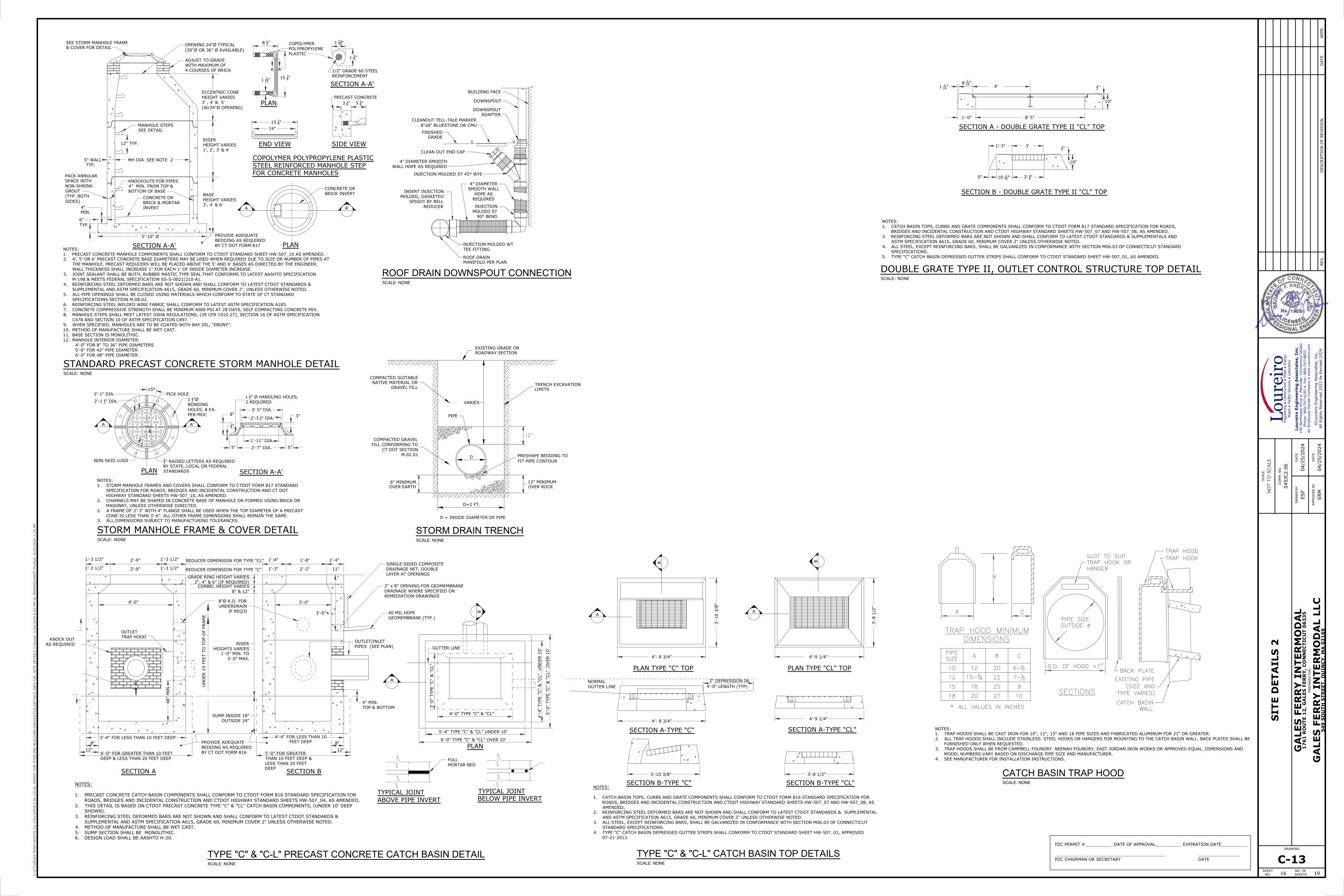
1,000 GAL DIESEL STORAGE TANK SCALE: NONE

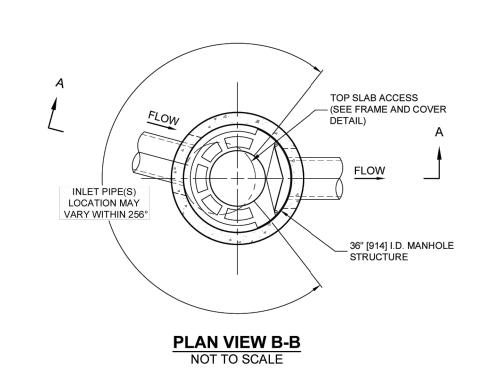
PZC PERMIT #	DATE OF APPROVAL	EXPIRATION DATE
PZC CHAIRMAN OR S	ECRETARY	DATE

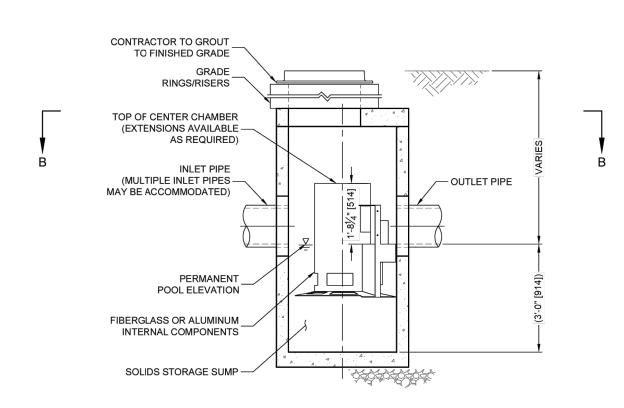
**C-12** SHEET 15 NO. OF 19

**DETAILS** 

S FERRY
OUTE 12, GALES FER
PREPARE
FERRY IN
49 SOUTH STREET.

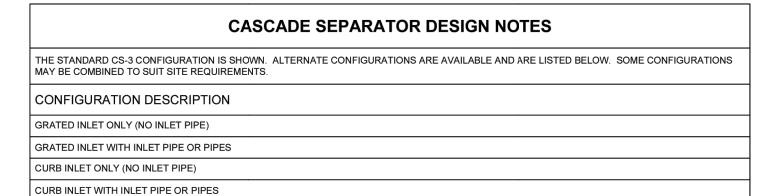


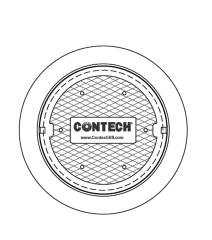






**ELEVATION A-A** 





FRAME AND COVER

(DIAMETER VARIES)

NOT TO SCALE

OW RATE (cfs [L	./s])	
s [L/s])		
PEAK FLOW (y	rs)	
INVERT	MATERIAL	DIAMETER
	s [L/s]) PEAK FLOW (y	PEAK FLOW (yrs)

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED

- SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com 3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT. 4. CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER
- ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO. 5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN
- 6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm ].

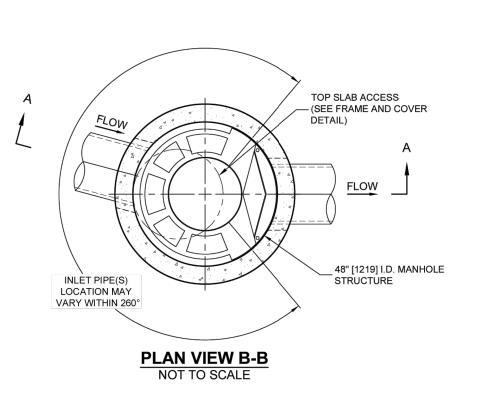
www.contechES.com 9025 Centre Pointe Dr., Suite 400, West Chester, OH 4506

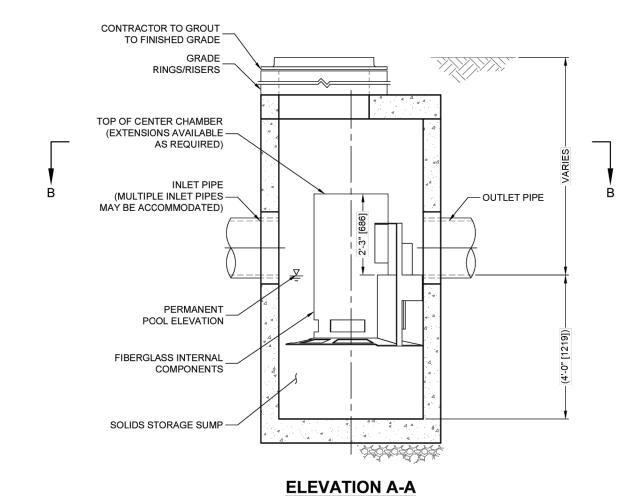
800-338-1122 513-645-7000 513-645-7993

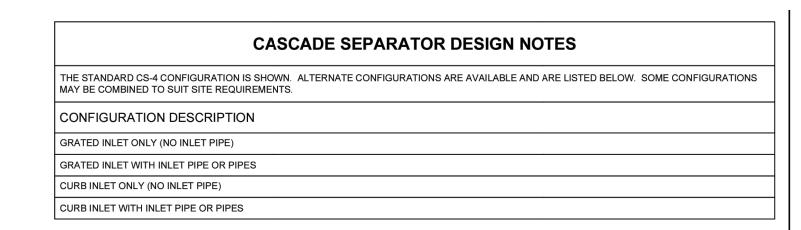
- INSTALLATION NOTES
  A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE
- B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS

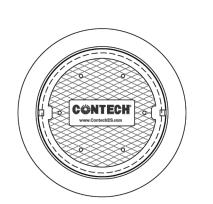
SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CS-3 CASCADE SEPARATOR STANDARD DETAIL









RAME AND COVER	
(DIAMETER VARIES) NOT TO SCALE	

AK FLOW (yrs	PEAK FLOW RATE (cfs [L/s]) RETURN PERIOD OF PEAK FLOW (yrs)			
RIM ELEVATION				
INVERT	MATERIAL	DIAMETER		
NOTES / SPECIAL REQUIREMENTS:				

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.

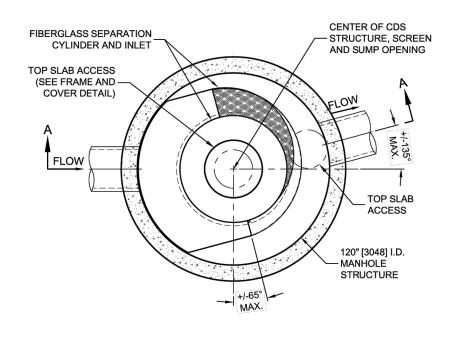
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
- CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
   CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' 2' [610], AND GROUNDWATER
- ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
- 5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN
- METHOD.
  6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm ].
- INSTALLATION NOTES

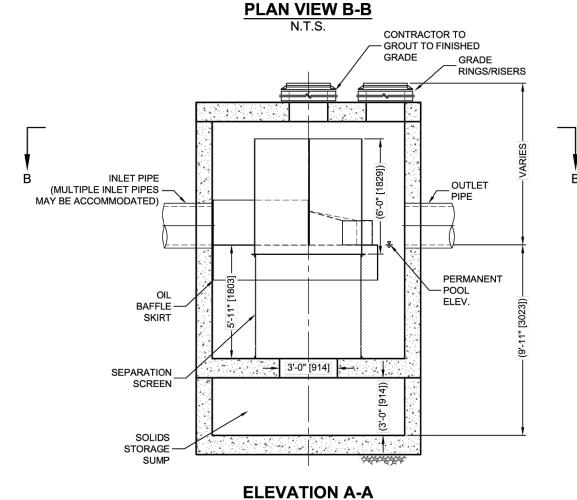
  A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR
- MANHOLE STRUCTURE. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.

  CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE
- CENTERLINES TO MATCH PIPE OPENING CENTERLINES. 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.

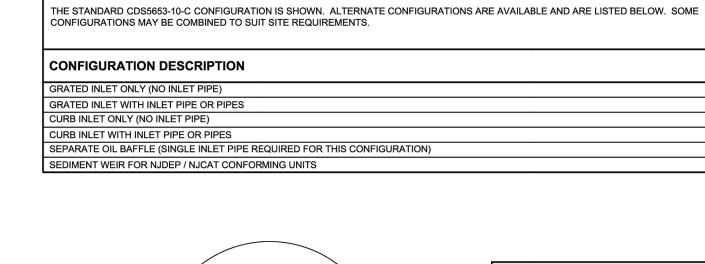
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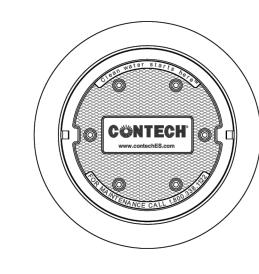
CS-4 CASCADE SEPARATOR STANDARD DETAIL





**QD2**,





FRAME AND COVER

(DIAMETER VARIES)

N.T.S.

STRUCTURE ID				
WATER QUALITY FLOW RATE (CFS OR L/s)				*
PEAK FLOW RATE (CFS OR L/s)				*
RETURN PERIOD OF PEAK FLOW (YRS)				*
SCREEN APERTU	JRE (2400 C	R 4700)		*
PIPE DATA:	I.E.	MATERIAL	D	IAMETER
INLET PIPE 1	*	*		*
INLET PIPE 2	*	*	*	
OUTLET PIPE	*	*		*
RIM ELEVATION				*
ANTI-FLOTATION BALLAST		WIDTH	Ŧ	HEIGHT
NOTES/SPECIAL	REQUIREM	ENTS:		
* PER ENGINEER	OE BECOE	PD.		
	OF RECOR	LD .		

SITE SPECIFIC

DATA REQUIREMENTS

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.

- 3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERE
- SOLUTIONS LLC REPRESENTATIVE. www.contechEScom 4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.

CDS5653-10-C DESIGN NOTES

- 5. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET HS20 (AASHTO M 306) AND BE
- 6. 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

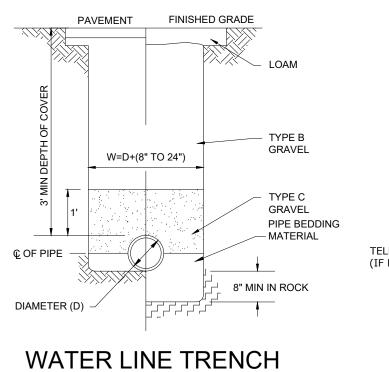
  A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.

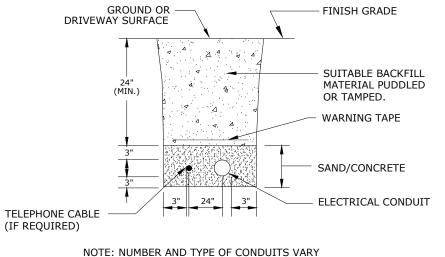
  D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.

  E. 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.

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CDS5653-10-C INLINE CDS STANDARD DETAIL





**ELECTRICAL LINE TRENCH** 

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

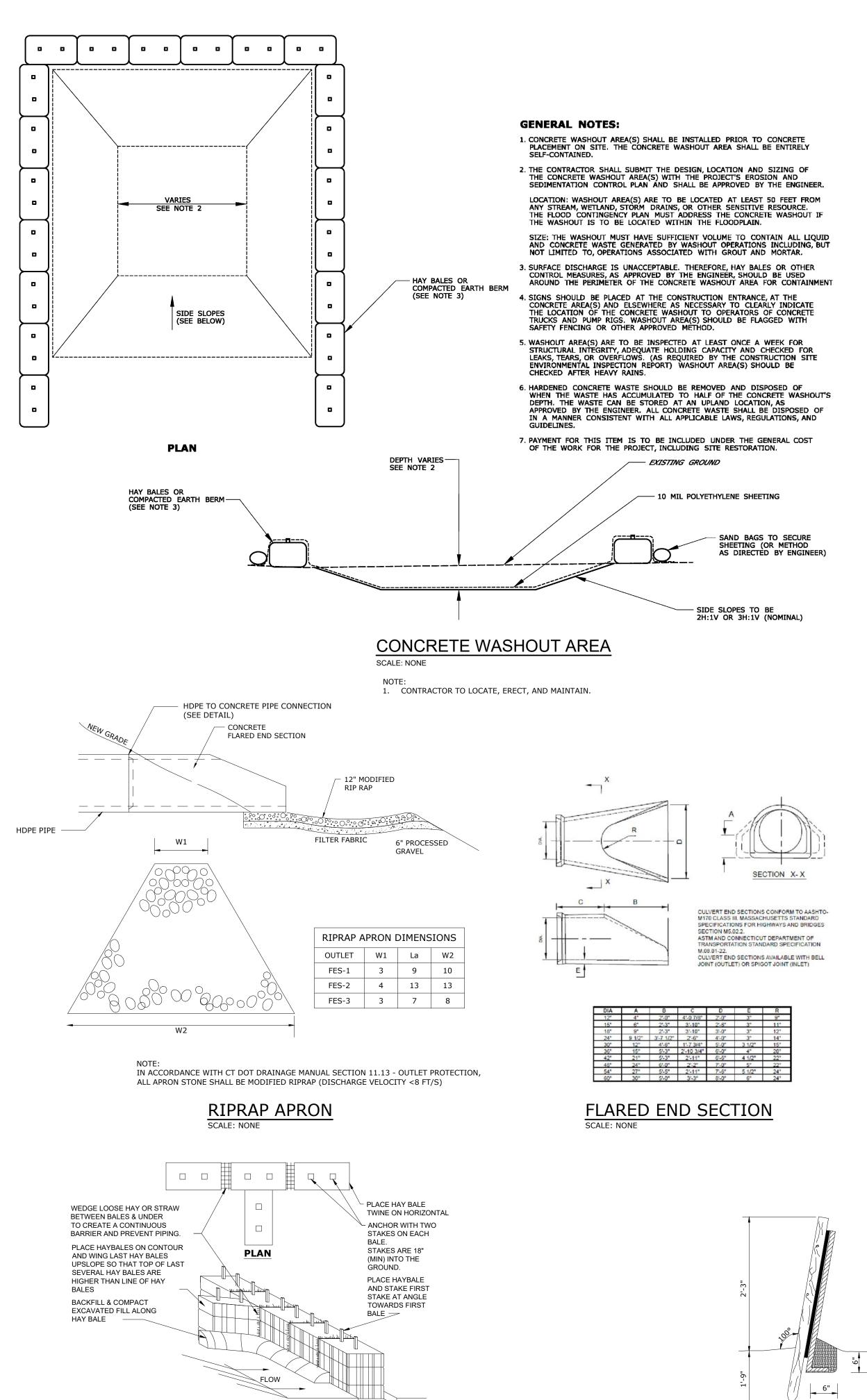
**C-14** 

NO. 17 NO. OF SHEETS 19

recipion EHRS. Energy

00 **DETAILS** 

S FERR NUTE 12, GALES FERRY 19 SOUTH STRE SITE



EXCAVATE 4" DEEP

TRENCH PLACE FILL

UPSLOPE OF TRENCH

5'-10' MINIMUM

HAYBALE BARRIER

TO TOE OF SLOPE

#### EROSION AND SEDMIENTATION (E&S) CONTROL PLAN:

- 1. THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN IS FOR THE CONSTRUCTION OF A NEW 6,000 SF INDUSTRIAL BUILDING AS WELL AS A 10,000 SF INDUSTRIAL BUILDING WITH A FUTURE 10,000 SF ADDITION, WITH ASSOCIATED LOADING DOCKS, ACCESS DRIVE, PARKING, UTILITY IMPROVEMENTS, LANDSCAPING IMPROVEMENTS, STORMWATER MANAGEMENT IMPROVEMENTS, A NEW SUBSURFACE SEWAGE DISPOSAL SYSTEM, AND
- OTHER ASSOCIATED SITE IMPROVEMENTS. 2. THE TOPOGRAPHY VARIES ACROSS THE SITE AND GENERALLY SLOPES FROM ROUTE 12 TO THE EXISTING ON-SITE INLAND WETLANDS. THE PORTION OF THE SITE WHERE THE PROPOSED WORK IS LOCATED SLOPES TO THE NORTH, SOUTH AND WEST. THE UNDERLYING
- SOIL ON THE SITE MOSTLY CONSISTS OF, FINE LOAMY SAND, HYDROLOGIC SOIL GROUP B. 3. A LARGE PORTION OF THE UPLAND SOILS WILL BE DISTURBED BY EARTHWORK ACTIVITIES AND THE INTENT OF THIS EROSION AND SEDIMENT CONTROL PLAN IS TO ESTABLISH STORMWATER CONTROLS DURING CONSTRUCTION TO PREVENT THE DISCHARGE OF
- SEDIMENT LADEN RUNOFF FROM ENTERING THE EXISTING INLAND WETLANDS. 4. EROSION CONTROL MEASURES INTENDED TO MINIMIZE SOIL EROSION AND TO CONTROL SEDIMENTATION DURING CONSTRUCTION INCLUDE:
- A. THE INSTALLATION OF SILT FENCE ALONG THE DOWN-GRADIENT LIMIT OF DISTURBANCE. INSTALL HAYBALES AS SHOWN ON PLANS.
- B. INSTALL SILTSACKS IN EXISTING CATCH BASINS IN THE PROJECT AREA. INSTALL SILT SACKS IN NEW CATCH BASINS DURING CONSTRUCTION. C. THE IMMEDIATE STABILIZATION OF FINAL GRADED AREAS THROUGH THE PLACEMENT OF
- D. DEVELOPMENT OF A CONSTRUCTION OPERATIONS PLAN IN CONSIDERATION OF BASIC CONSTRUCTION SEQUENCING OUTLINED HEREIN. 5. IT IS ANTICIPATED THAT SITE WORK CONSTRUCTION WILL BEGIN IN THE SPRING OF 2024

#### GENERAL E&S REQUIREMENTS

- 1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH THE TOWN REPRESENTATIVE TO DISCUSS ESC REQUIREMENTS AND STORMWATER MANAGEMENT
- 2. CONSTRUCTION ENTRANCE SHALL BE INSTALLED BEFORE CONSTRUCTION TRAFFIC INTO AND OUT OF THE SITE BEGINS.

RIPRAP, TOPSOIL, SEED, MULCH AND EROSION CONTROL NETTING.

AND WILL BE COMPLETED IN THE SUMMER OF 2024.

- 3. THE CONTRACTOR SHALL INSTALL HAYBALES AND SILT FENCING AS SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN PRIOR TO INITIATING CONSTRUCTION ACTIVITIES AND SHALL BE MAINTAINED/REPAIRED UNTIL FINAL STABILIZATION OF ALL DISTURBED
- 4. THE CONTRACTOR SHALL SEED AND MULCH DISTURBED AREAS EXPECTED TO REMAIN UNSTABILIZED FOR A PERIOD OF MORE THAN 30 DAYS.
- 5. THE CONTRACTOR SHALL COMPLETE PERMANENT SEEDING BETWEEN APRIL 15TH THROUGH JUNE 15TH AND AUGUST 15TH THROUGH SEPTEMBER 15TH. APPLY PERMANENT SOIL STABILIZATION MEASURES TO ALL GRADED AREAS WITHIN 7 DAYS OF ESTABLISHING FINAL GRADE AT A RATE OF 90 POUNDS PER 1,000 SQUARE FEET. RECOMMENDED SEED MIXTURE: FUTURA 2000 BY THE CHAS C. HART CO. CONTAINING THE FOLLOWING VARIETIES OF PERENNIAL RYEGRASSES: FIESTA II, BLAZER II, DASHER II AND EXPRESS.
- 6. UPON COMPLETION OF CONSTRUCTION, ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF SEDIMENT AND DEBRIS. ALL REMOVED SEDIMENTS AND DEBRIS SHALL BE DISPOSED OF. 7. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL DURING THE CONSTRUCTION PROCESS. THE CONSTRUCTION MANAGER SHALL INSPECT THE SITE TO ASSURE DUST IS ADEQUATELY CONTROLLED. IF THE CONSTRUCTION MANAGER DETERMINES DUST CONTROL MEASURES ARE NOT ADEQUATE, THE CONTRACTOR SHALL BE REQUIRED TO INCREASE
- 8. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROLS.

THESE MEASURES AS DIRECTED BY THE CONSTRUCTION MANAGER.

- 9. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE OF CONNECTICUT SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. ALL MEASURES SHALL BE MAINTAINED AND UPGRADED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION
- 10. THE CONSTRUCTION MANAGER SHALL BE RESPONSIBLE FOR IMPLEMENTING AND INSPECTING EROSION AND SEDIMENT CONTROL MEASURES PER THIS PLAN AND SHALL INFORM ALL CONTRACTORS OF THE OBJECTIVES AND REOUIREMENTS OF THE PLAN. THE OWNER SHALL NOTIFY THE PROPER TOWN AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY AND SHALL ADVISE THE TOWN REGARDING THE NEED FOR IMPLEMENTING ADDITIONAL CONTROL MEASURES OR MAINTAINING EXISTING MEASURES AS DEEMED NECESSARY DURING CONSTRUCTION, WEEKLY INSPECTIONS SHALL BE CONDUCTED AND/OR WITHIN 24 HOURS OF THE END OF A STORM HAVING A RAINFALL AMOUNT OF 1/2 INCH OR GREATER. MONTHLY WRITTEN REPORTS SHALL BE PREPARED INFORMING THE TOWN OF LEDYARD OBSERVATIONS, MAINTENANCE, AND CORRECTIVE ACTIONS.
- 11. THE INDIVIDUAL RESPONSIBLE FOR MONITORING THE EROSION AND SEDIMENT CONTROL IMPLEMENTED PER THE PLAN AND WITH WHOM AN INSPECTOR FOR THE TOWN CAN CONTACT ROUTINELY IS CHASE DAVIS FROM GALES FERRY INTERMODAL LLC WITH PHONE NUMBER 781-789-9397

#### CONSTRUCTION SEQUENCE

NOTE: PREMANUFACTURED FENCE MAY BE USED.

SILT FENCE

THE INTENT OF THE FOLLOWING CONSTRUCTION SEQUENCE IS TO ESTABLISH STORMWATER RUNOFF FROM ENTERING STORM DRAIN SYSTEMS, WETLANDS AND WATERCOURSES. THE ESC PLAN SHOWS THE PROPOSED GRADING WHICH DEPICTS THE APPROXIMATE EXCAVATION LIMITS AND RESULTING DRAINAGE PATTERNS UPON WHICH THE ESC MEASURES ARE PREDICATED. THE CONTRACTOR SHALL DEVELOP A CONSTRUCTION EXCAVATION PLAN

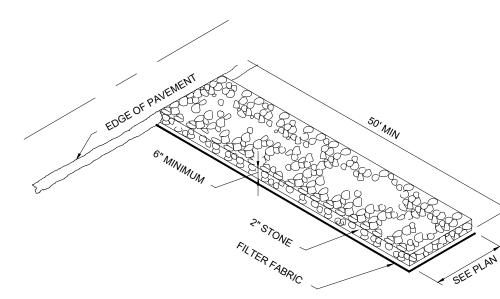
- BASED ON THEIR OPERATIONAL REQUIREMENTS. 1. CONTACT "CALL BEFORE YOU DIG" TO MARK OUT ALL UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- 2. ENSURE ALL LAND USE PERMITS HAVE BEEN SECURED. OBTAIN ALL NECESSARY PERMITS.

- 3. THE PROJECT LAND SURVEYOR SHALL STAKE OUT PROPOSED CLEARING LIMITS PRIOR TO
- 4. INSTALL TEMPORARY CONSTRUCTION ENTRANCE, SEDIMENT FENCES AND/OR HAY BALE BARRIERS AS SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN.
- REMOVE ALL TREES, BRUSH AND STUMPS WITHIN CLEARING LIMITS AS NECESSARY. PROTECT WETLANDS AT ALL TIMES. THERE SHALL BE NO BURIAL OF CONSTRUCTION DEBRIS, STUMPS, BRUSH OR UNSUITABLE MATERIAL ON SITE.
- EXCAVATE AND/OR FILL WORK SITE TO SUBGRADE LEVEL.
- A. NO ROCK CRUSHING AND/OR BLASTING IS PROPOSED. IF BLASTING IS REQUIRED FOR ROCK REMOVAL, A PRE-BLAST SURVEY SHALL BE PERFORMED. IF BLASTING AND ROCK CRUSHING ARE REQUIRED THEN APPROVAL OF THE PLANNING AND ZONING COMMISSION IS REQUIRED.
- B. FILL WILL BE PLACED AND COMPACTED IN 8 INCH LIFTS AND SHALL BE FREE OF BRUSH, RUBBISH, LOGS, BUILDING DEBRIS, OR ANY OTHER OBJECTIONABLE MATERIAL. C. MOISTEN SOIL SURFACE PERIODICALLY WITH WATER TO MINIMIZE DUST.
- THE PROPOSED BUILDING AND SEPTIC SYSTEM SHALL BE STAKED OUT BY A LICENSED LAND
- BEGIN CONSTRUCTION OF BUILDINGS, SEPTIC SYSTEM, AND INSTALL UTILITIES. ADD EROSION CONTROL DEVICES AS NEEDED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING THE BUILDING AND SEPTIC SYSTEM IN THE EXACT LOCATION SHOWN AND SHALL BE CONSTRUCTED TO THE EXACT DIMENSIONS SHOWN ON THE LATEST SITE AND ARCHITECTURAL PLANS IN ACCORDANCE
- 10. INSTALL STORMWATER MANAGEMENT IMPROVEMENTS AND DRAINAGE STRUCTURES STARTING FROM THE MOST DOWNGRADIENT IMPROVEMENTS.
- . ALL DISTURBED AREAS NOT COVERED BY BUILDINGS, PARKING, SIDEWALKS, GRAVEL SURFACES, ETC., SHALL BE GRADED AND STABILIZED AS FOLLOWS:
- A. PLACE MINIMUM 4 INCHES OF TOPSOIL IN ALL AREAS.
- B. APPLY RECOMMENDED SEED MIXTURE AT RECOMMENDED RATE
- APPLY STRAW OR HAY MULCH ON ALL SEEDED AREAS. ALL GRADED AREAS WITH SLOPES GRADED AT 3H:1V OR STEEPER SHALL BE STABILIZED WITH EROSION CONTROL
- 11. PLACE AND COMPACT BASE MATERIAL TO FINAL GRADE. INSTALL PAVEMENT, CURB, SIDEWALKS, GRAVEL, STEPS, ETC.
- 12. INSTALL FINAL PAVEMENT COURSE. 13. FINAL GRADE AND PLACE TOPSOIL SEED AND MULCH.
- 14. WHEN ALL GRADED AREAS ARE PERMANENTLY STABILIZED, REMOVE ALL EROSION AND SEDIMENT CONTROLS. REMOVE TRAPPED SEDIMENT.

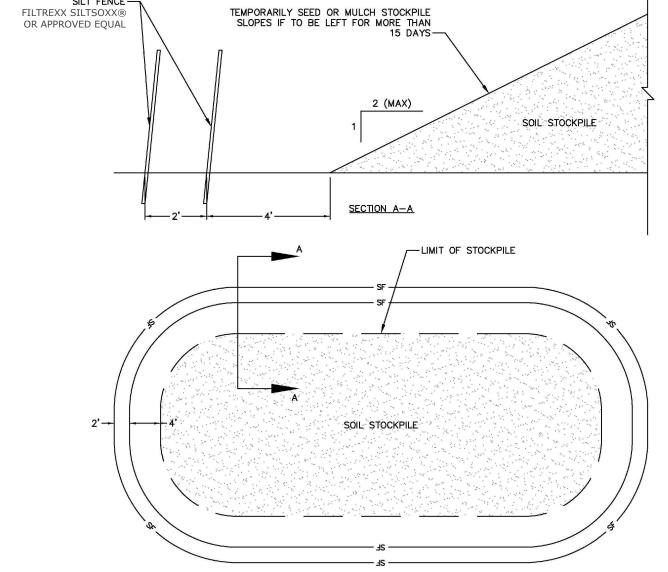
#### MAINTENANCE OF EROSION CONTROL DEVICES:

#### HAYBALE BARRIERS/GEOTEXTILE SILT FENCES:

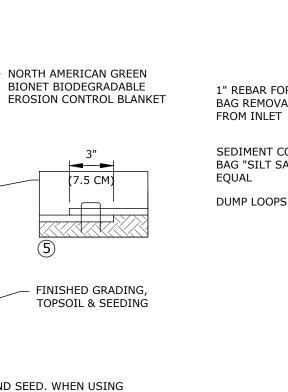
- A. INSPECT HAY BALE BARRIERS/GEOTEXTILE SILT FENCE AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2" OR GREATER TO
- B. REMOVE SEDIMENT DEPOSITS OR INSTALL A SECONDARY BARRIER/FENCE WHEN SEDIMENT DEPOSITS REACH APPROXIMATELY ONE HALF HEIGHT OF THE BARRIER/FENCE.
- REPLACE OR REPAIR THE BARRIER/FENCE WITHIN 24 HOURS OF OBSERVED FAILURE. IF REPETITIVE FAILURE OCCURS, CONSULT 2002 GUIDELINES FOR TROUBLESHOOTING FAILURES.
- D. MAINTAIN THE HAY BALE BARRIER/SILT FENCE UNTIL THE CONTRIBUTING AREA IS STABILIZED.
- E. AFTER UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE STAKES FROM HAY BALES; PULL UP FENCE SUPPORT POSTS AND CUT OFF GEOTEXTILE AT GROUND. UNLESS OTHERWISE REQUIRED, HAY BALES MAY BE LEFT IN PLACE OR BROKEN UP FOR GROUND COVER. IF ACCUMULATED SEDIMENT EXCEEDS 6 INCHES, RE-GRADE OR REMOVE SEDIMENT. STABILIZE ANY DISTURBED SOILS.
- CONSTRUCTION ENTRANCES AND ROADWAYS:
- A. MAINTAIN THE ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING AND WASHING OF SEDIMENTS ONTO PAVED SURFACES.
- B. PROVIDE PERIODIC TOP DRESSING AND ADDITIONAL STONE OR LENGTH AS NECESSARY
- IMMEDIATELY REMOVE ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES. ROADS ADJACENT TO THE CONSTRUCTION SITE SHALL BE LEFT CLEAN EVERY DAY.



TEMPORARY CONSTRUCTION ENTRANCE



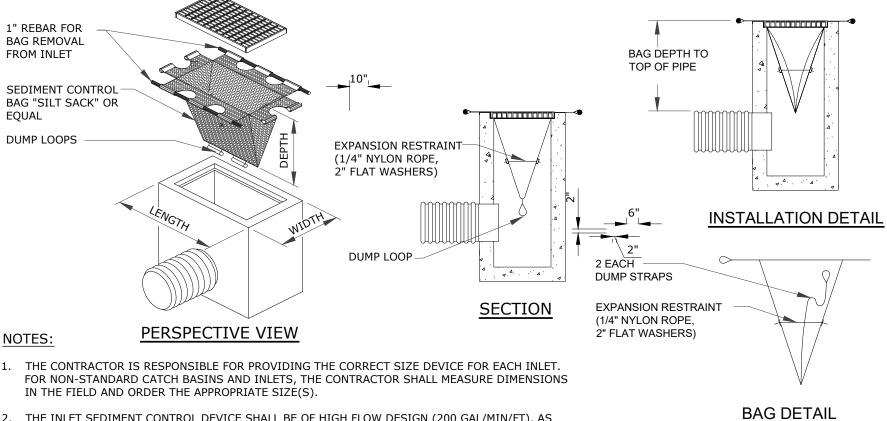
## TEMPORARY SOIL STOCKPILE DETAIL



#### 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.

- 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.
- 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.
- 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 TM ON THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPLICED 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**



- 1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE CORRECT SIZE DEVICE FOR EACH INLET.
- 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
- 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

EROSION AND SEDIMENT CONTROL PLAN PZC PERMIT #\_ CHAIRMAN/VICE CHAIRMAN OF THE ZONING COMMISSION OR ITS AGENT PZC CHAIRMAN OR SECRETARY

\_ DATE OF APPROVAL\_ EXPIRATION DATE

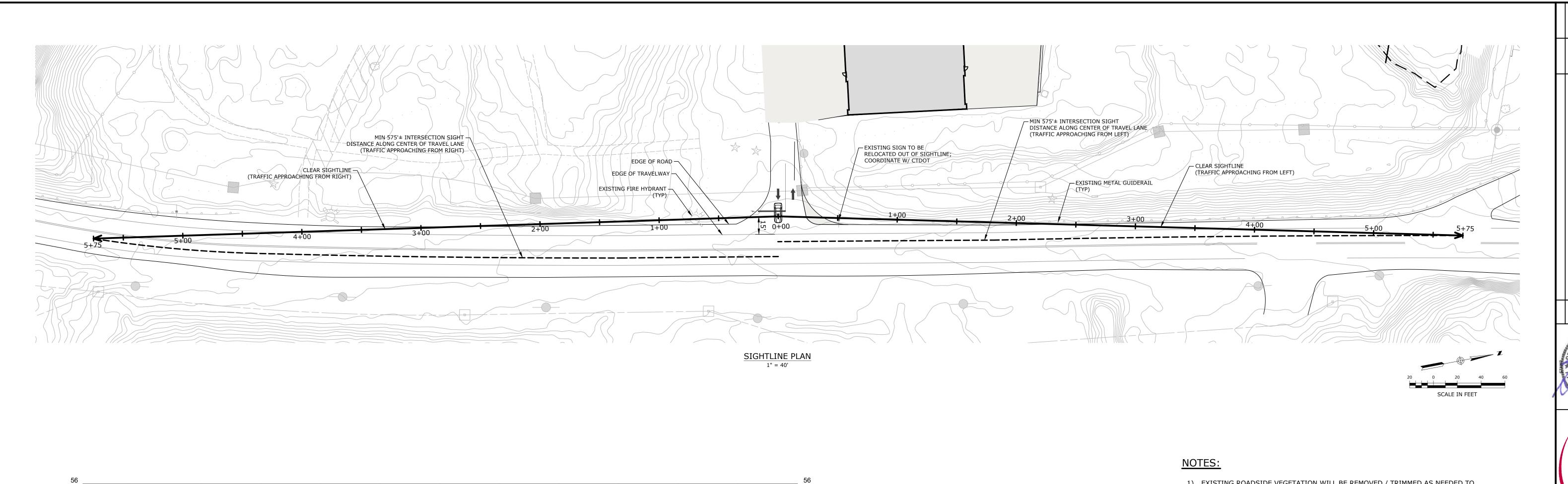
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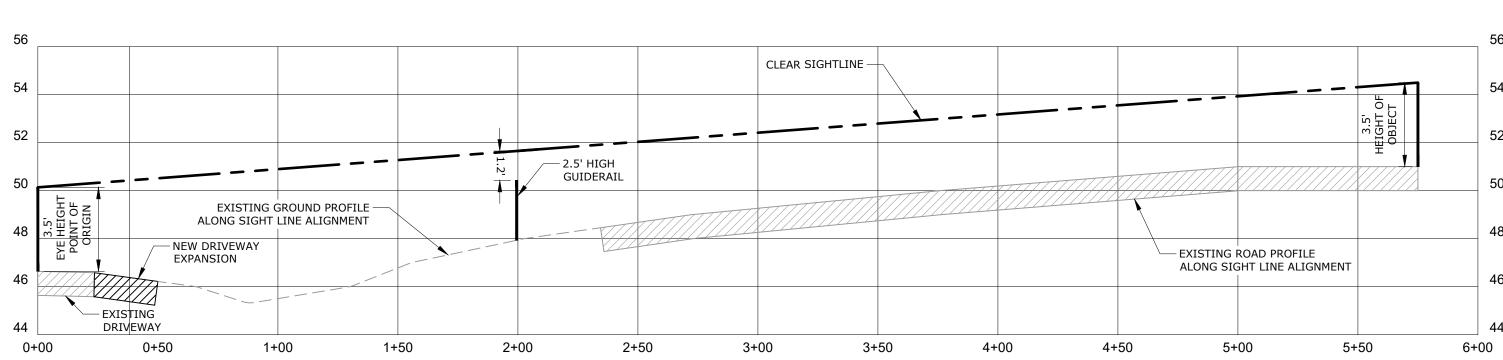
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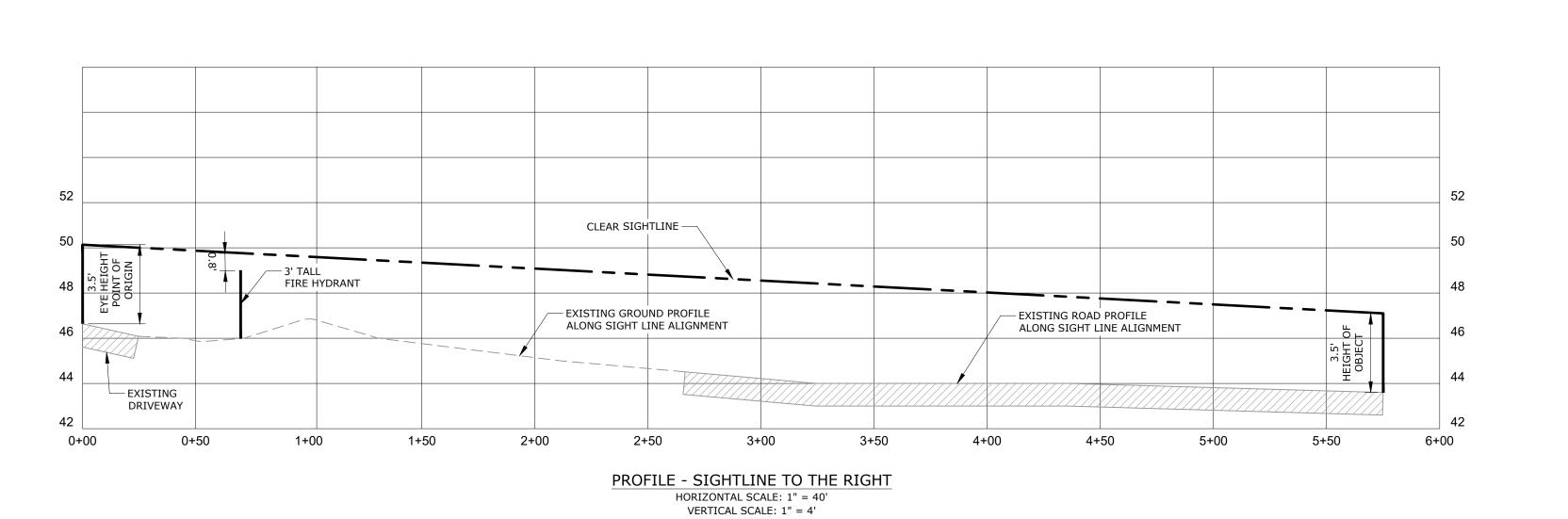
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## PROFILE - SIGHTLINE TO THE LEFT HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 4'

- 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.



PZC PERMIT #\_\_\_\_\_ DATE OF APPROVAL\_\_\_\_\_ EXPIRATION DATE\_\_\_\_\_

PZC CHAIRMAN OR SECRETARY DATE

DRAWING

C-16

SHEET NO. 19 NO. OF SHEETS 19

SIGHTLINE DEMONSTRATION PLAN