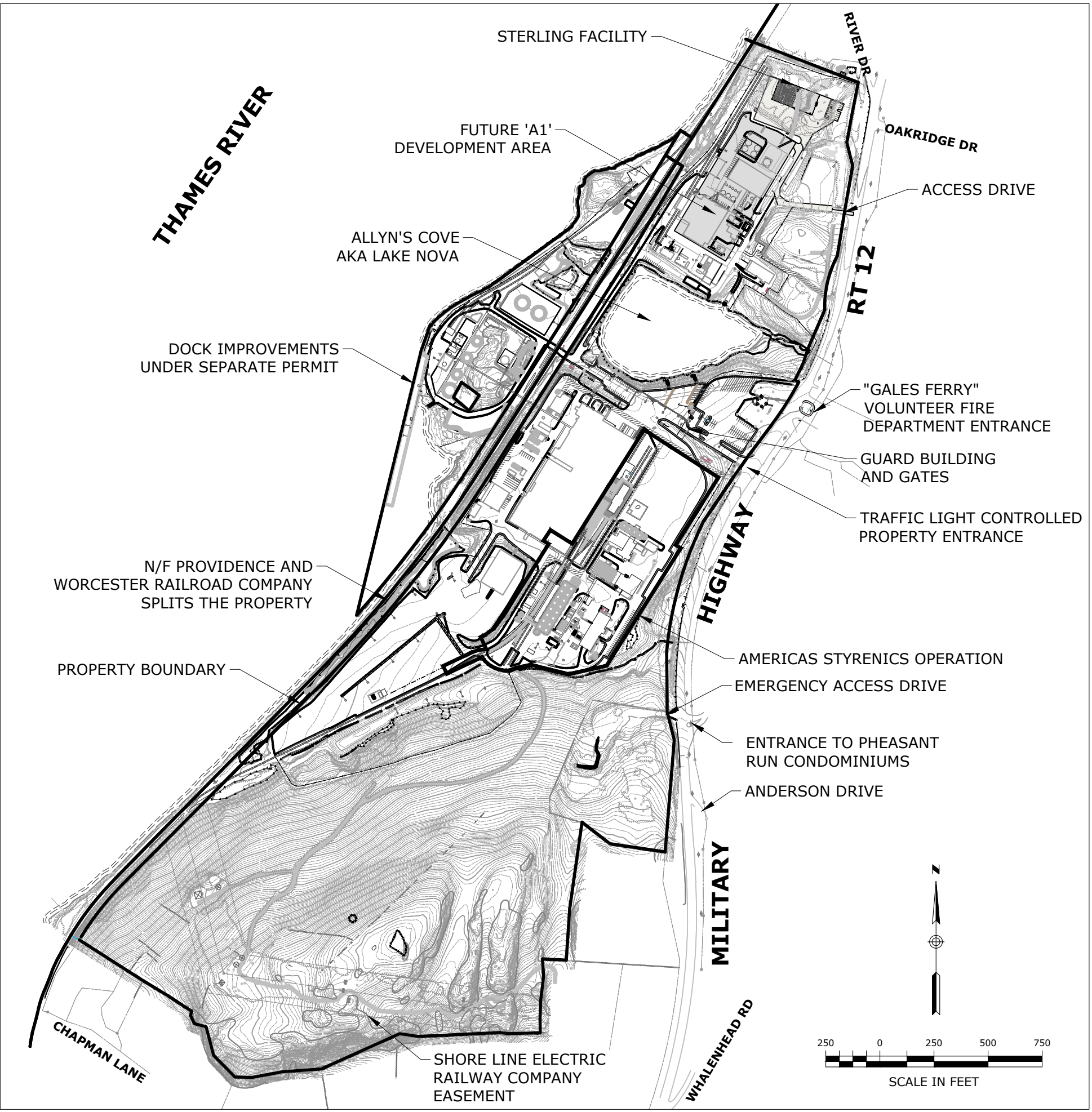
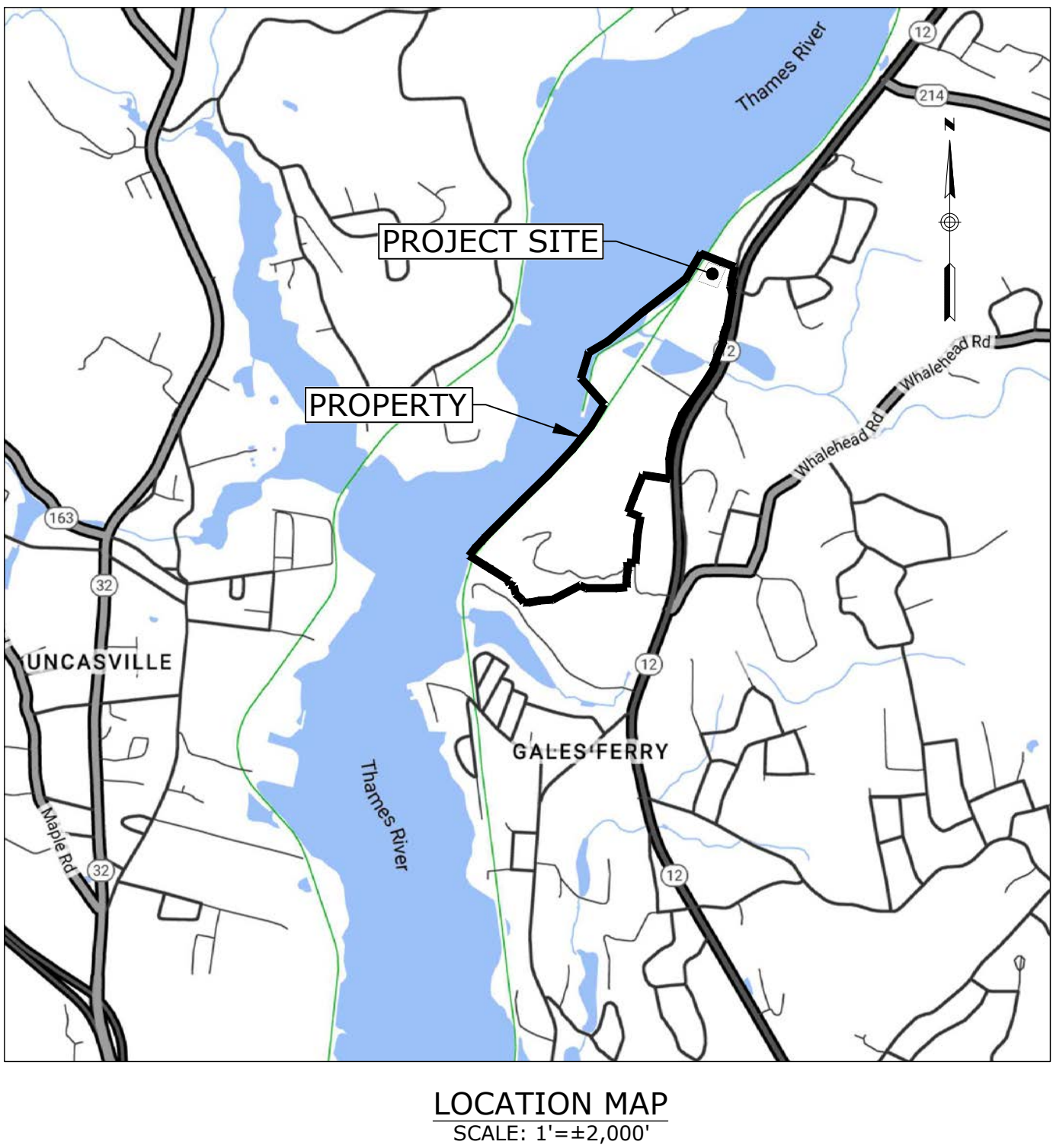


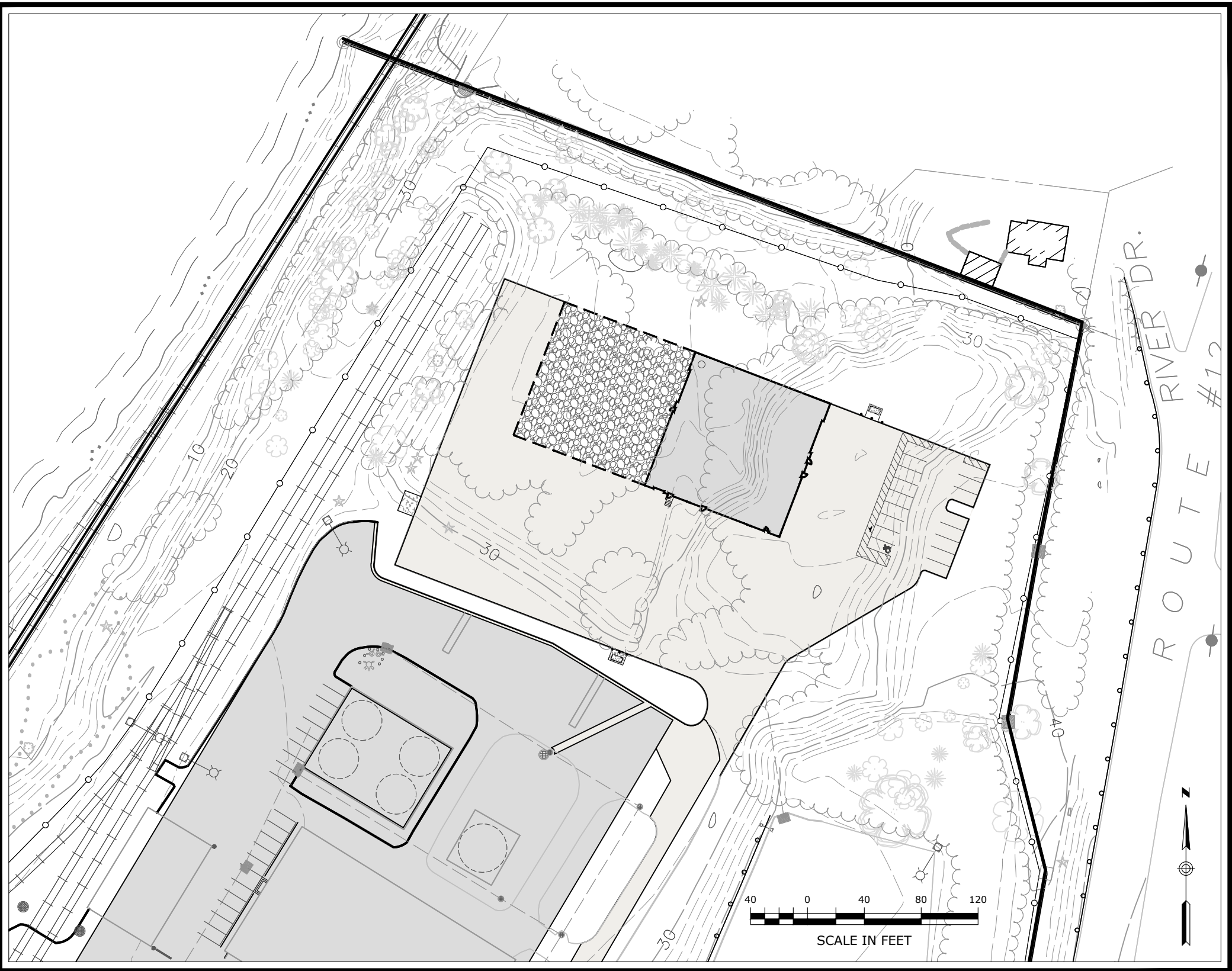
# GALES FERRY INTERMODAL STERLING FACILITY

1761 ROUTE 12  
GALES FERRY, CONNECTICUT 06335

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



PROPERTY MAP AND ADJACENT FEATURES



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

Property Owner / Applicant:

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SURVEY NOTES:

- 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.
- THE SUBJECT PROPERTY IS LOCATED ENTIRELY WITHIN THE "I" INDUSTRIAL ZONE DISTRICT.
- "NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NEW LONDON COUNTY, CONNECTICUT ALL JURISDICTIONS PANEL 354, TOWN OF LEDYARD, MAP NUMBER 0901C0354G EFFECTIVE DATE JULY 18, 2011 FEDERAL EMERGENCY MANAGEMENT AGENCY" INDICATES THE SUBJECT PROPERTY IS LOCATED IN ZONE AE (EL 12) AND ZONE X.
- 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.
- UNDERGROUND UTILITIES MUST BE FIELD VERIFIED PRIOR TO ANY EXCAVATION.
- INLAND WETLANDS WERE DELINEATED IN THE FIELD BY JMM WETLAND CONSULTING SERVICES, LLC AND LOCATED BY LOUREIRO ENGINEERING ASSOCIATES, INC., GROTON, CONNECTICUT.
- LIMITS OF FLOOD ZONE SHOWN ON PROPOSED PLAN ARE FROM FEMA NFIP MAP NUMBER 09011C0354G, EFFECTIVE DATE JULY 18, 2011.
- 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, QUINCY, 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 THE SUBJECT PROPERTY.

SITE NOTES:

- THE APPLICANT/OWNER IS GALES FERRY INTERMODAL LLC OF 549 SOUTH STREET, QUINCY, MA.
- THE APPLICANT IS PROPOSING TO CONSTRUCT 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.
- OTHER USES ON THE SITE CURRENTLY INCLUDE MANUFACTURING OF STYROFOAM PRODUCTS BY AMERICAS STYRENICS, A TENANT OF THE PROPERTY.
- 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 SPECIAL PERMIT APPLICATION FOR THE NEW INDUSTRIAL BUILDING. THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND ARE NOT TO BE USED FOR CONTRACT DOCUMENTS.
- FOR EXACT BUILDING DIMENSIONS, SEE BUILDING PLANS PROVIDED.
- 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.
- 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 %
- PARKING CALCULATIONS FOR NEW INDUSTRIAL BUILDING:  
A. REQUIRED:  
1 SPACE PER EMPLOYEE ON MAX SHIFT PLUS 1 SPACE PER FLEET VEHICLE  
1 SPACE PER EMPLOYEE ON MAX SHIFT X 10 EMPLOYEES PLUS 1 SPACE PER FLEET VEHICLE X 7 FLEET VEHICLES = 17 SPACES REQUIRED  
B. PROPOSED:  
17 SPACES  
NOTE: OTHER ON-SITE BUILDINGS AND USES WERE NOT EVALUATED FOR PARKING REQUIREMENTS.
- 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.
- 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.
- 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 CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN, REVIEW AND ADHERE TO ALL REQUIREMENTS AND ANY CONDITIONS OF APPROVAL OF THE TOWN OF LEDYARD.
- NO SIGNAGE IS PROPOSED WITH THIS APPLICATION. ANY FUTURE SIGNAGE SHALL MEET THE ZONING REGULATIONS REQUIREMENTS AND WILL REQUIRE THE NECESSARY PERMITS.
- ANY EXTERIOR LIGHTING SHALL BE FULL CUTOFF AND SHALL BE SHIELDED TO DIRECT LIGHT AND GLARE AWAY FROM ALL ADJOINING PROPERTIES.
- ALL PROPOSED PAVEMENT MARKINGS SHALL BE INSTALLED IN THE LOCATIONS SHOWN WITH DURABLE WHITE PAVEMENT MARKING MATERIAL 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.
- NEW SIDEWALKS, RAMPS AND DRIVEWAYS SHALL BE INSTALLED TO PROVIDE SMOOTH TRANSITION FOR PEDESTRIANS AND VEHICLES.
- ALL CURB/HANDICAP RAMP DESIGNS SHALL CONFORM TO ANSI STANDARDS OR ADA ACT OF 1991, WHICHEVER IS MOST RESTRICTIVE.
- 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. SAWING LINES MAY BE MODIFIED AS NECESSARY TO MEET CONSTRUCTION REQUIREMENTS UPON REVIEW AND APPROVAL BY THE DESIGN ENGINEER.
- ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" STANDARDS.

UTILITY NOTES:

- 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.
- 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 UTILITY AUTHORITY POLICIES AND PRACTICES.
- ALL NEW UTILITIES, INCLUDING CATV, WILL BE LOCATED UNDERGROUND.
- ELECTRIC, TELEPHONE AND COMMUNICATION SERVICES SHALL CONFORM TO THE POLICIES AND PRACTICES OF THE APPROPRIATE UTILITY AUTHORITIES.
- UTILITY SERVICE SIZES, MATERIALS, AND INSTALLATIONS SHALL BE APPROVED AND INSPECTED BY THE APPROPRIATE UTILITY COMPANY.
- PROVIDE MINIMUM VERTICAL SEPARATION OF 12" FROM WATER MAIN TO DRAINAGE PIPING AND 18" TO SEWER PIPING.
- LOCATION AND SIZE OF ALL BUILDING UTILITY CONNECTIONS SHALL BE COORDINATED WITH BUILDING ARCHITECTURAL PLANS AND APPROPRIATE UTILITY AUTHORITY.
- 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.
- MINIMUM 6' SEPARATION BETWEEN ELECTRIC AND ALL OTHER PIPES SUCH AS WATER, SEWER AND DRAINS.
- ALL UTILITIES AND ON-SITE STORM DRAINAGE SHALL BE STRUCTURALLY SUPPORTED TO MINIMIZE DISRUPTION FROM SETTLEMENT OF UNDERLYING SOIL.

EROSION AND SEDIMENTATION (E&S) CONTROL PLAN:

NARRATIVE

- THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN IS FOR THE CONSTRUCTION OF A NEW 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.
- 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 IS MOSTLY CONSIST OF THE LOAMY SAND, HYDROLOGIC SOIL GROUP B.
- 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.
- 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 RIPRAP, TOPSOIL, SEED, MULCH AND EROSION CONTROL NETTING.  
D. DEVELOPMENT OF A CONSTRUCTION OPERATIONS PLAN IN CONSIDERATION OF BASIC CONSTRUCTION SEQUENCING OUTLINED HEREIN.
- IT IS ANTICIPATED THAT SITE WORK CONSTRUCTION WILL BEGIN IN THE SPRING OF 2023 AND WILL BE COMPLETED IN THE FALL OF 2023.

GENERAL E&S REQUIREMENTS

- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH THE TOWN REPRESENTATIVE TO DISCUSS ESC REQUIREMENTS AND STORMWATER MANAGEMENT PROCEDURES.
- CONSTRUCTION ENTRANCE SHALL BE INSTALLED BEFORE CONSTRUCTION TRAFFIC INTO AND OUT OF THE SITE BEGINS.
- 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 AREAS.
- THE CONTRACTOR SHALL SEED AND MULCH DISTURBED AREAS EXPECTED TO REMAIN UNSTABILIZED FOR A PERIOD OF MORE THAN 30 DAYS.
- 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 GRASSES: FIESTA II, BLAZER II, DASHER II AND EXPRESS.
- UPON COMPLETION OF CONSTRUCTION, ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF SEDIMENT AND DEBRIS. ALL REMOVED SEDIMENTS AND DEBRIS SHALL BE DISPOSED OFF-SITE.
- 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 THESE MEASURES AS DIRECTED BY THE CONSTRUCTION MANAGER.
- THE CONTRACTOR SHALL MAINTAIN EROSION CONTROLS.
- 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.
- 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 REQUIREMENTS 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 1/4 INCH OR GREATER. MONTHLY WRITTEN REPORTS SHALL BE PREPARED INFORMING THE TOWN OF LEDYARD OBSERVATIONS, MAINTENANCE, AND CORRECTIVE ACTIONS.

CONSTRUCTION SEQUENCE

THE INTENT OF THE FOLLOWING CONSTRUCTION SEQUENCE IS TO ESTABLISH STORMWATER CONTROLS DURING EARTHWORK ACTIVITIES TO PREVENT THE DISCHARGE OF SEDIMENT LADEN 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.

- CONTACT "CALL BEFORE YOU DIG" TO MARK OUT ALL UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- ENSURE ALL LAND USE PERMITS HAVE BEEN SECURED. OBTAIN ALL NECESSARY PERMITS.
- THE PROJECT LAND SURVEYOR SHALL STAKE OUT PROPOSED CLEARING LIMITS PRIOR TO CONSTRUCTION.
- 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 SURVEYOR PRIOR TO CONSTRUCTION.
- 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 WITH THE APPROVED PLANS.
- 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.  
C. 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 BLANKETS.
- PLACE AND COMPACT BASE MATERIAL TO FINAL GRADE. INSTALL PAVEMENT, CURB, SIDEWALKS, GRAVEL, STEPS, ETC.
- INSTALL FINAL PAVEMENT COURSE.
- FINAL GRADE AND PLACE TOPSOIL SEED AND MULCH.
- WHEN ALL GRADED AREAS ARE PERMANENTLY STABILIZED, REMOVE ALL EROSION AND SEDIMENT CONTROLS. REMOVE TRAPPED SEDIMENT.

MAINTENANCE OF EROSION CONTROL DEVICES:

1. HAYBALE BARRIERS/GEOTEXTILE SILT FENCES:

- 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 DETERMINE MAINTENANCE NEEDS.
  - 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.
  - MAINTAIN THE HAY BALE BARRIER/SILT FENCE UNTIL THE CONTRIBUTING AREA IS STABILIZED.
  - 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.
2. CONSTRUCTION ENTRANCES AND ROADWAYS:
- MAINTAIN THE ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING AND WASHING OF SEDIMENTS ONTO PAVED SURFACES.
  - 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.

STORMWATER MANAGEMENT SYSTEM MAINTENANCE PLAN:

- GENERAL  
A. THE ACCESS DRIVE AND PARKING AREAS SHOULD BE SWEEPED AT LEAST ONCE PER YEAR, PREFERABLY AFTER THE END OF THE WINTER SANDING SEASON.
- 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.
- STORMTECH UNDERGROUND INFILTRATION/DETENTION SYSTEM  
A. THE ISOLATOR ROWS SHALL BE CLEANED AT THE END OF CONSTRUCTION ONCE THE CONTRIBUTING AREAS ARE FULLY STABILIZED. FOR THE FIRST YEAR OF OPERATION FOLLOWING CONSTRUCTION, THE CHAMBER ROWS SHALL BE INSPECTED ONCE EVERY 6 MONTHS.  
B. AFTER THE FIRST YEAR OF OPERATION, THE CHAMBERS SHALL BE INSPECTED A MINIMUM OF ONCE PER YEAR. IF UPON VISUAL INSPECTION IT IS FOUND THAT SEDIMENT HAS ACCUMULATED, A STADIA ROD SHOULD BE INSERTED TO DETERMINE THE DEPTH OF THE SEDIMENT. WHEN THE AVERAGE DEPTH OF ACCUMULATION EXCEEDS 3", A CLEAN-OUT SHOULD BE PERFORMED AND PROPERLY DISPOSED OFF-SITE. CLEAN-OUT SHOULD BE ACCOMPLISHED USING A JETVAC PROCESS.  
C. A DETAILED MAINTENANCE LOGBOOK SHALL BE KEPT ON-SITE FOR THE UNITS BY THE PROPERTY OWNER/MANAGER. INFORMATION IS TO INCLUDE, BUT NOT BE LIMITED TO, THE DATE OF INSPECTION, RECORD OF SEDIMENT DEPTH, GENERAL OBSERVATIONS, AND DATE OF CLEANING PERFORMED.
- 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 GREATER.  
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.

ZONING DATA TABLE

| 'I' INDUSTRIAL ZONE<br>USE - COMMERCIAL    |                            |                                    |
|--------------------------------------------|----------------------------|------------------------------------|
| ITEM                                       | REQUIRED                   | PROVIDED                           |
| LOT AREA                                   | 200,000 SQ FT<br>(4.59 AC) | 6,882,480 SQ FT<br>(158 AC)        |
| FRONTAGE                                   | 200 FT                     | 3700 ± FT                          |
| LOT WIDTH                                  | 200 FT                     | > 200 FT                           |
| FRONT SETBACK                              | 35 FT                      | 163.72 FT                          |
| SIDE SETBACK                               | 25 FT                      | 115 FT                             |
| REAR SETBACK                               | 25 FT                      | 140 ± FT                           |
| LOT COVERAGE (%)<br>(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)<br>(SEE SITE NOTE 6) | 17 SPACES                  | 17 SPACES                          |
| WATER SUPPLY                               | MUNICIPAL                  |                                    |
| SANITARY DISPOSAL                          | ONSITE SSDS                |                                    |

LEGEND

|          |                                            |      |                        |
|----------|--------------------------------------------|------|------------------------|
| AC       | ACRES                                      | ---  | EXISTING CONTOUR       |
| BIT CONC | BITUMINOUS CONCRETE                        | ---  | EXISTING INDEX CONTOUR |
| TC       | TOP OF CURB                                | x6.1 | NEW SPOT GRADE         |
| CHD      | CONNECTICUT HIGHWAY<br>DEPARTMENT MONUMENT | —    | NEW CONTOUR            |
| BC       | BOTTOM OF CURB                             | —    | NEW INDEX CONTOUR      |
| C.O.     | CLEAN OUT                                  | —    | BUILDING SETBACK LINE  |
| CL&P     | CONNECTICUT LIGHT & POWER                  | —    | MUNICIPAL WATER        |
| LLR      | LEDYARD LAND RECORDS                       | —    | UNDERGROUND ELECTRIC   |
| FF       | FINISHED FLOOR                             |      | CATCH BASIN W/ E&S     |
| INV      | INVERT                                     |      | SEDIMENT FENCE         |
| M/L      | MORE OR LESS                               |      | SIGN                   |
| MIN      | MINIMUM                                    |      | UTILITY POLE           |
| N/F      | NOW OR FORMERLY                            |      | DECIDUOUS TREE         |
| SF       | SQUARE FEET                                |      |                        |
| TYP      | TYPICAL                                    |      |                        |

SOIL TYPE - TAKEN FROM NATURAL  
RESOURCES CONSERVATION SERVICE,  
WEB/STOIL SURVEY, NATIONAL COOPERATIVE  
SOIL SURVEY

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

NOTES, LEGEND, AND ABBREVIATIONS

GALES FERRY INTERMODAL LLC  
1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335  
GALES FERRY INTERMODAL LLC  
549 SOUTH STREET, QUINCY, MA 02469



- 1.) "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 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.
- 2.) "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.
- 3.) "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, OFFICE OF VALUATION ENGINEER, BOSTON MASS. MAP NO. V.5063 / 131.
- 4.) "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.

5.) "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.

6.) "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.

7.) "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, LEDYARD, CONN." SCALE: "1"=100' DATE: JULY 1952 REVISED AUGUST 1953, G.L. BILDERBECK CONSULTING ENGINEERS, NEW LONDON, CONN.

8.) "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.

9.) "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP TOWN OF LEDYARD NORWICH--GROTON ROAD FROM ARLYN'S BROOK NORTHERLY TO LEDARD--PRESTON TOWN LINE" SCALE: 1"=40' DATE: NOVEMBER 5, 1957, SHEETS 1 THROUGH 3 OF 9 PROJECT NUMBER 17-11-6. THESE MAPS SUPERSEDE PROJECT 71-05. SHEET 3 REVISED AUGUST 25, 1967.

10.) "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP TOWN OF LEDYARD NORWICH--GROTON--ROAD GAGES FERRY ROAD TO ARLYN'S BROOK" SCALE: 1"=40' DATE: NOVEMBER 5, 1957, SHEETS 1 THROUGH 4 OF 4. PROJECT NUMBER 17-15. THESE MAPS SUPERSEDE PROJECT 71-04. SHEET 4 REVISED THROUGH 17, 2004.

11.) "PLAN SHOWING LANDS NOW AND FORMALLY OF H. WINTHROP HURLBUTT LEDYARD, CONNECTICUT" SCALE: 1"=100' DATE: OCTOBER 1964, GEORGE H. DIETER, LAND SURVEYOR, ON FILE AS MAP # 226.

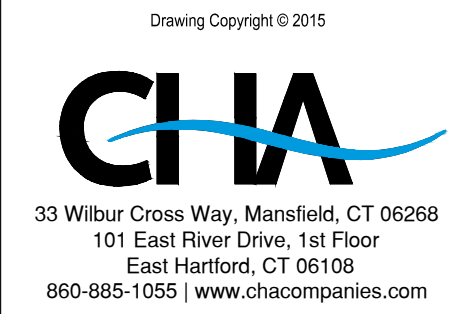
12.) "PLAN OF PROPERTY TO BE CONVEYED TO THE TOWN OF LEDYARD BY THE DOW CHEMICAL COMPANY, TOWN OF LEDYARD, CONN." SCALE: 1"=100' DATE: APRIL 1972, CHANDLER, PALMER & KING, NORWICH, CONN.

13.) "PLAN SHOWING PARCELS OF LAND WITH BUILDINGS PROPERTY OF JAMES L. LEWIS AND ALICE L. LEWIS, PENTWAY AT WEST END CHAPMAN LANE LEDYARD, CONNECTICUT" MAP #1=20' DATE JUNE 1976, GEORGE H. DIETER, LAND SURVEYOR, ON FILE AS MAP # 672.

14.) "TOPOGRAPHICAL PLAN, PLAN OF A PORTION OF DOW CHEMICAL CO. ALLYN'S POINT PLANT GALE'S FERRY, CONN." MAP #1=40' DATE: JULY 9, 1984 REVISIONS THROUGH AUGUST 28, 1984, CHANDLER PALMER & KING, NORWICH, CONN.

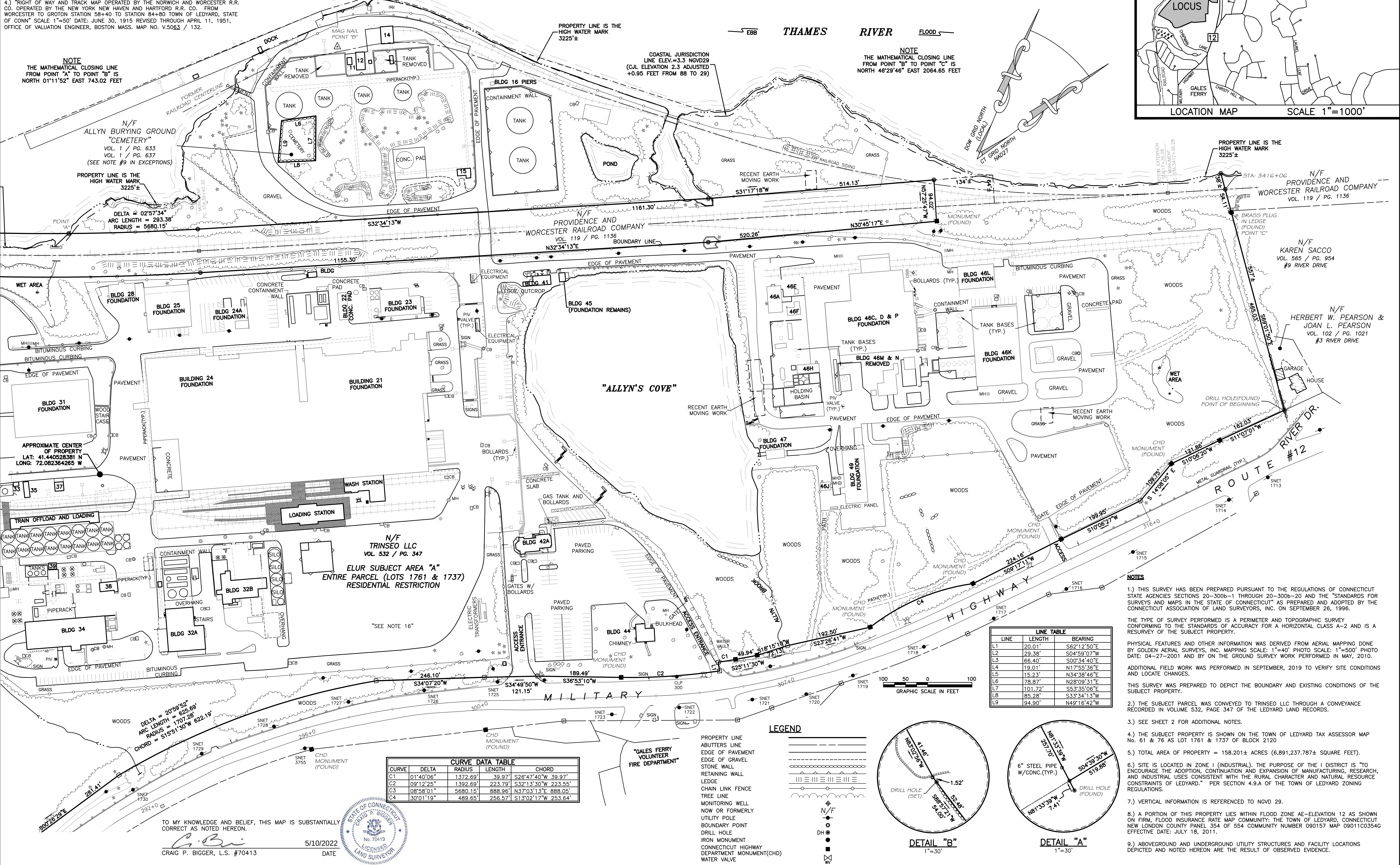
15.) "MONUMENTED PROPERTY SURVEY MAP DEPICTING LAND OF GALE'S FERRY MARINA, INC. A PORTION OF LAND OF JAMES L. LEWIS AND LUCILLE A. LUPINACCI, CHAPMAN LANE, GALE'S FERRY, LEDYARD, CONNECTICUT" MAP #1=40' DATE: MARCH 26, 1994 REVISED APRIL 19, 1994, DAVID L. STEIN, LAND SURVEYOR, WESTBROOK, CONNECTICUT, ON FILE AS MAP #1753.

16.) 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 MAP: 1'=60" SHEET 1 OF 1 DATE: 03-04-2010 YANKEE FILE #00048, BY CME ASSOCIATES, INC. ON FILE AS MAP #2629.



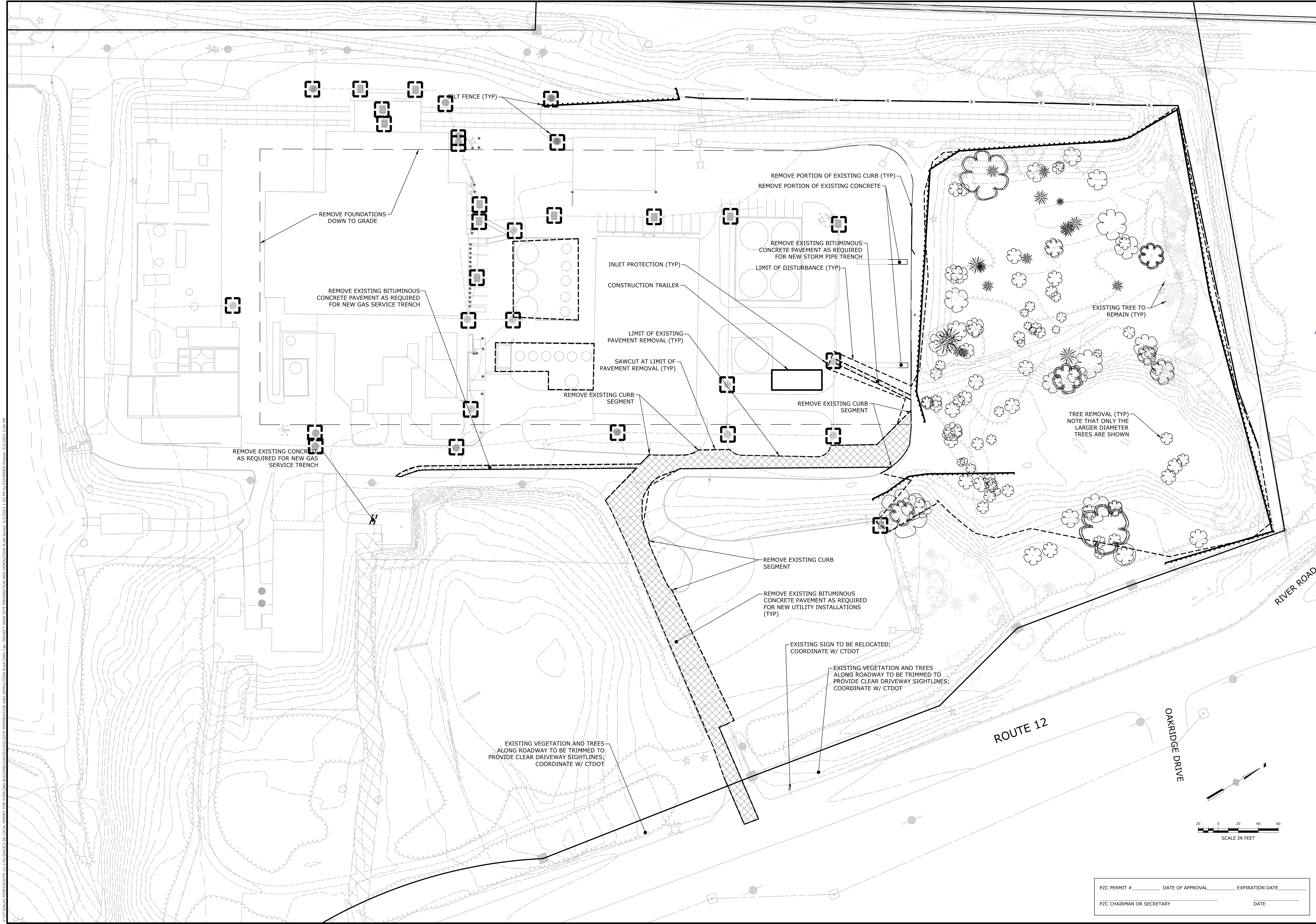
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER ANY ITEM OR PART OF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL, IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

|                          |                       |                     |
|--------------------------|-----------------------|---------------------|
| PROPERTY SURVEY          |                       |                     |
| Designed By:<br>---      | Drawn By:<br>CB       | Checked By:<br>CB   |
| Issue Date:<br>5/10/2022 | Project No:<br>076625 | Scale:<br>1" = 100' |
| Drawing No.:             |                       |                     |
| SHEET 1 OF 2             |                       |                     |





V:\ACT\GALES FERRY\ROUTE 12-1761\0451C2.dwg LOCAL PERMIT FOR STEELING BUILDINGS\SCULPTURE SITE PREPARATION AND DEMOLITION PLAN.DWG 1:03 PM by: ESBANNER printed: 5/2/2023 2:04 PM



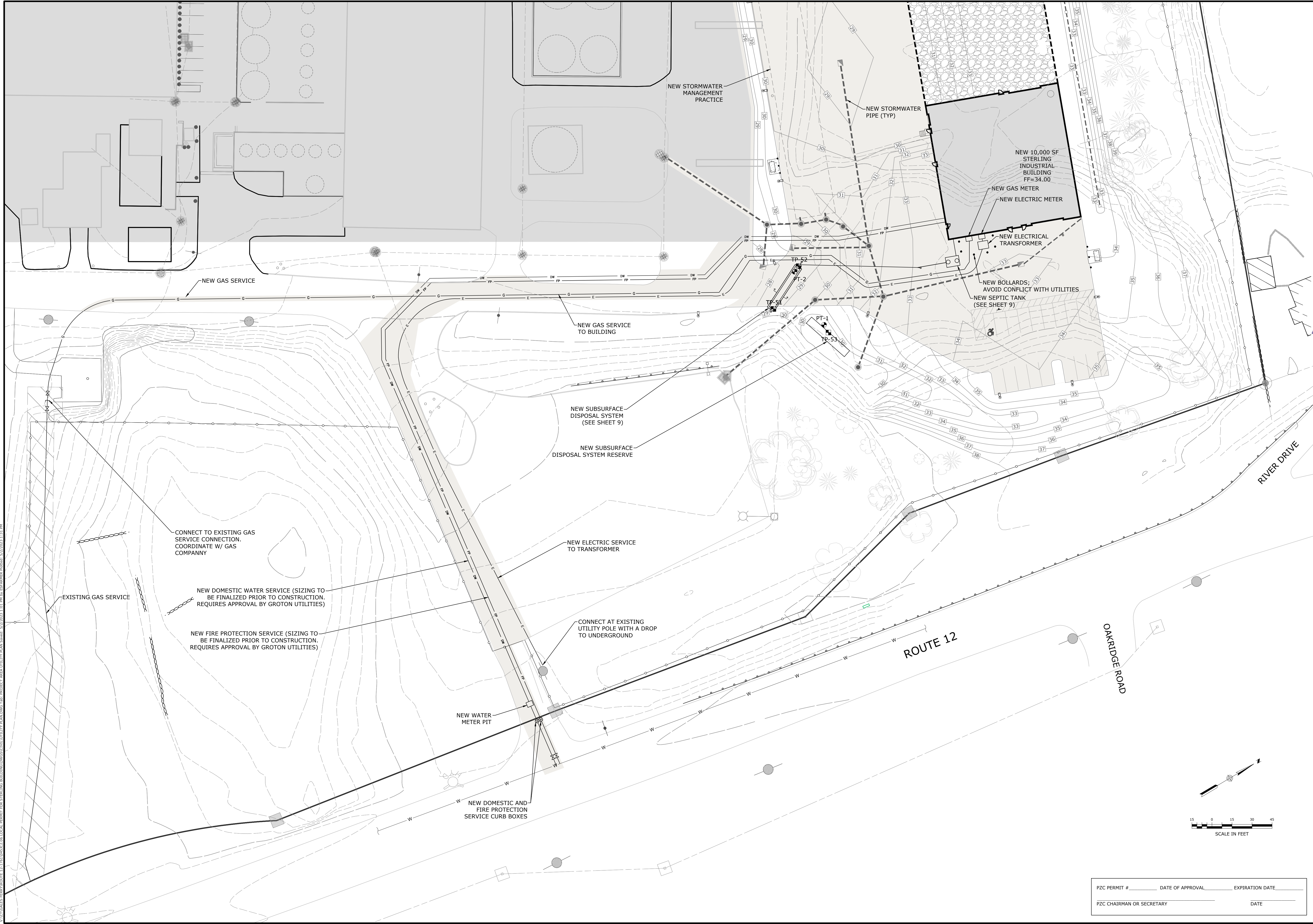
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|---------------------------|------------------|-----------------|
| PZC PERMIT #              | DATE OF APPROVAL | EXPIRATION DATE |
| PZC CHAIRMAN OR SECRETARY | DATE             |                 |

|                                                                                                                                                                                                                                                                                                                                   |                     |                        |  |                    |                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|--|--------------------|--------------------|
| SCALE<br>1"=40'                                                                                                                                                                                                                                                                                                                   |                     | CROWN NO.<br>0451C2.06 |  | DATE<br>04/06/2023 |                    |
| DRAWN BY<br>ESP                                                                                                                                                                                                                                                                                                                   |                     | APPROVED BY<br>SRM     |  | DATE<br>04/06/2023 |                    |
| <b>SITE PREPARATION AND DEMOLITION PLAN</b>                                                                                                                                                                                                                                                                                       |                     |                        |  |                    |                    |
| <b>GALES FERRY INTERMODAL</b><br>1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335                                                                                                                                                                                                                                                    |                     |                        |  |                    |                    |
| <b>GALES FERRY INTERMODAL LLC</b><br>393 SOUTH STREET, SUITE 101, DANBURY, CT 06810                                                                                                                                                                                                                                               |                     |                        |  |                    |                    |
| DRAWING<br><b>C-3</b>                                                                                                                                                                                                                                                                                                             |                     |                        |  |                    |                    |
| SHEET NO.<br>5                                                                                                                                                                                                                                                                                                                    | NO. OF SHEETS<br>20 |                        |  |                    | DATE<br>04/06/2023 |
| REV.                                                                                                                                                                                                                                                                                                                              |                     |                        |  |                    | DATE               |
| 2                                                                                                                                                                                                                                                                                                                                 |                     |                        |  |                    | 05/01/2023         |
| 1                                                                                                                                                                                                                                                                                                                                 |                     |                        |  |                    | 04/06/2023         |
| DESCRIPTION OF REVISION                                                                                                                                                                                                                                                                                                           |                     |                        |  |                    | APPR.              |
|                                                                                                                                                                                                                                                                                                                                   |                     |                        |  |                    |                    |
|                                                                                                                                                                                                                                                                                                                                   |                     |                        |  |                    |                    |
| Loureiro Engineering Associates, Inc.<br>Engineers • Architects • Planners • Surveyors • Environmental Scientists • Energy<br>1761 ROUTE 12, GALES FERRY, CT 06335<br>Phone: 860-747-6161 • Fax: 860-747-6822<br>An Employee-Owned Company • www.loureiro.com<br>© Loureiro Engineering Associates, Inc. All Rights Reserved 2023 |                     |                        |  |                    |                    |





V:\ACT\GALES FERRY\ROUTE 12-1761\0451C2.dwg LOCAL PERMIT FOR STERLING BUILDINGS\UTILITY PLAN.DWG Sub-PROJECT AREA UTILITY PLAN Saved: 5/2/2023 1:01 PM by GSAWMB Printed: 5/2/2023 1:11 PM

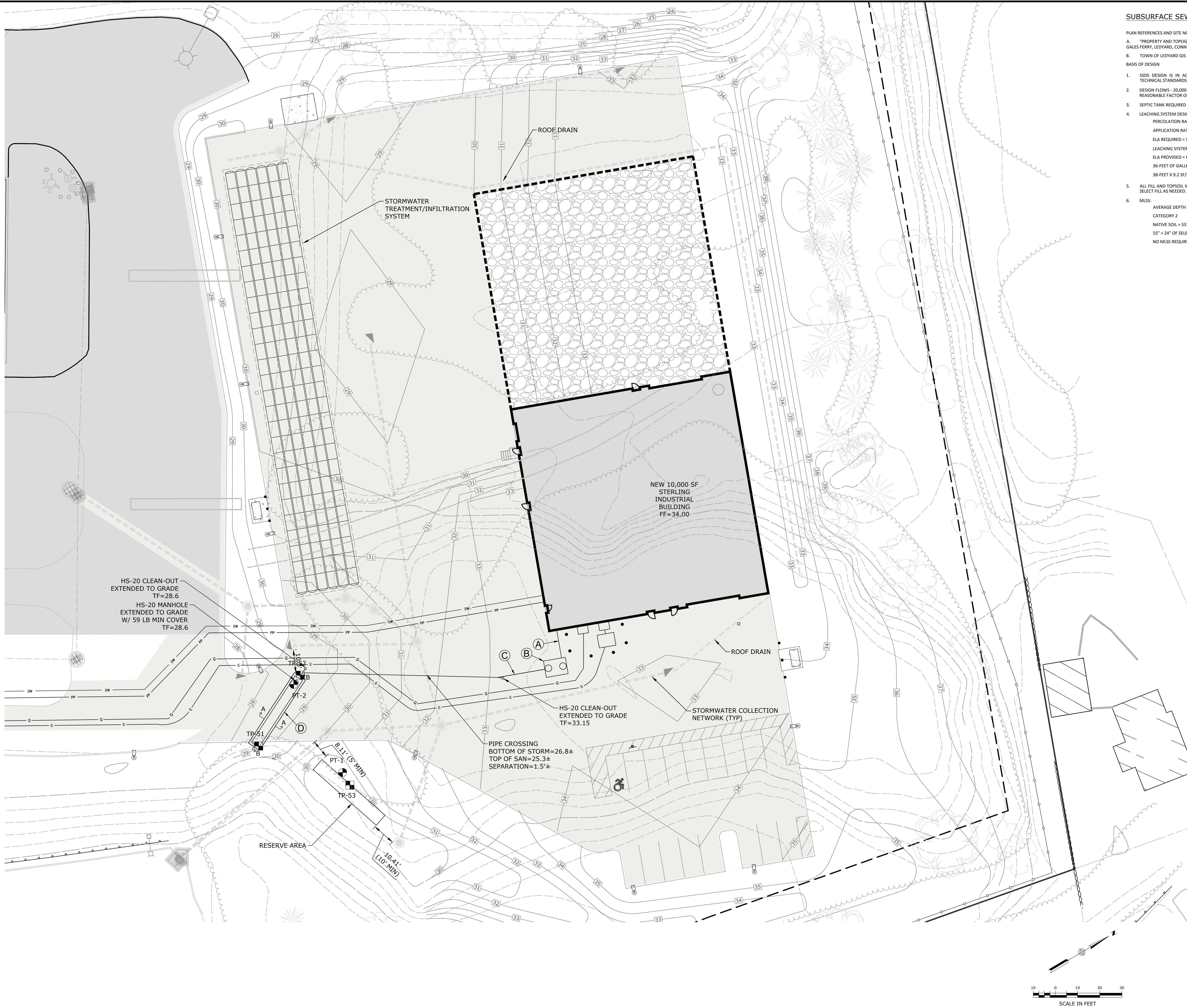


|                           |                  |                 |
|---------------------------|------------------|-----------------|
| PZC PERMIT #              | DATE OF APPROVAL | EXPIRATION DATE |
| PZC CHAIRMAN OR SECRETARY | DATE             |                 |

|                    |  |                                                                                                                                                         |  |
|--------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| UTILITY PLAN       |  | GALES FERRY INTERMODAL<br>1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335<br>GALES FERRY INTERMODAL LLC<br>383 SOUTH STREET, SUITE 101, DANBURY, CT 06810 |  |
| DRAWN BY<br>ESP    |  | DATE<br>04/06/2023                                                                                                                                      |  |
| APPROVED BY<br>SRM |  | DATE<br>04/06/2023                                                                                                                                      |  |
| SCALE<br>1"=30'    |  | COWL NO.<br>0451C2.06                                                                                                                                   |  |
| SHEET NO.<br>8     |  | NO. OF SHEETS<br>20                                                                                                                                     |  |
| C-6                |  | DATE<br>04/06/2023                                                                                                                                      |  |
| REV.               |  | DESCRIPTION OF REVISION                                                                                                                                 |  |
| 1                  |  | REVISED PER UPDATED LAYOUT                                                                                                                              |  |
| 2                  |  | REVISED PER UPDATED LAYOUT                                                                                                                              |  |
| SRM                |  | DATE<br>04/06/2023                                                                                                                                      |  |
| APPR.              |  | DATE<br>05/01/2023                                                                                                                                      |  |

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V:\CT\GALES FERRY\ROUTE 12-1761\SSDS\2.dwg LOCAL PRESENT FOR STERLING BUILDING\CONSTRUCTION\UTILITY PLAN.DWG Tab: SSDS PLAN Sheet: 5/2/2023 1:01 PM by: RSGARABER Revised: 5/2/2023 1:31 PM



SUBSURFACE SEWAGE DISPOSAL SYSTEM (SSDS) BASIS OF DESIGN:

- PLAN REFERENCES AND SITE NOTES
- A. "PROPERTY AND TOPOGRAPHIC SURVEY PREPARED FOR STYRON LLC "ALLYN'S POINT PLANT" 1737 & 1761 MILITARY HIGHWAY - ROUTE 12, GALES FERRY, LEDYARD, CONNECTICUT PREPARED BY CME ASSOCIATES, IN, DATED SEPTEMBER 2, 2010
- B. TOWN OF LEDYARD GIS - PUBLIC WATER IS AVAILABLE ON THIS SITE AND ALL ABUTTING PROPERTIES
- BASIS OF DESIGN
1. SSDS DESIGN IS IN ACCORDANCE WITH THE CONNECTICUT PUBLIC HEALTH CODE, ON-SITE SEWAGE DISPOSAL REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS.
2. 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.
3. SEPTIC TANK REQUIRED - MINIMUM 1,000 GALLONS. SEPTIC TANK PROVIDED - 1,250 HS-20 DESIGNED FOR TRAFFIC AREA.
4. 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-FEET OF GALLEYS PLUS 2-FEET OF CRUSHED STONE AT THE ENDS  
38-FEET X 9.2 SF/LF ELA = 349 SF ELA
5. ALL FILL AND TOPSOIL WITHIN FIVE FEET SURROUNDING THE LEACHING SYSTEM AREA SHALL BE REMOVED AND REPLACED WITH SUITABLE SELECT FILL AS NEEDED.
6. MLSS:  
AVERAGE DEPTH TO RESTRICTIVE LAYER:  
CATEGORY 2  
NATIVE SOIL = 55"  
55" + 24" OF SELECT FILL = 79" > 60"  
NO MLSS REQUIRED

| SEPTIC SYSTEM KEY                                                          |                                                                                                                  |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| (A)                                                                        | 15 L.F. 4" SCH. 40 PVC ASTM D1785 BUILDING SEWER PIPE INSTALLED @ 1/4" PER FT. MIN. SLOPE AND 12" MIN. COVER     |
| (B)                                                                        | 1,250-GALLON HS-20 CONCRETE SEPTIC TANK                                                                          |
| (C)                                                                        | 152 L.F. 4" SDR 35 ASTMD3034 DISTRIBUTION PIPE INSTALLED @ 1% MIN. SLOPE                                         |
| (D)                                                                        | (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         |        |
| SEPTIC TANK STRUCTURE         | TOP    |
|                               | BOTTOM |
| SEPTIC TANK INVERTS           | IN     |
|                               | OUT    |
| LEACHING GALLEYS              | TOP    |
|                               | BOTTOM |
| LEACHING GALLEY INVERT        |        |

| NO. 4 STONE AGGREGATE |                             |
|-----------------------|-----------------------------|
| AKA 1 & 1/4" STONE    |                             |
| SIEVE SIZE            | PERCENT PASSING (BY WEIGHT) |
| 2"                    | 100                         |
| 1 1/4"                | 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. |                             |           |

STATE OF CONNECTICUT  
JEROME B. LOUREIRO  
Professional Engineer  
No. 10285  
Professional Seal

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SCALE  
1"=20'  
CWN. NO.  
0451C2.06

DRAWN BY  
ESP

DATE  
04/06/2023

APPROVED BY  
SRM

DATE  
04/06/2023

SUBSURFACE SEWAGE DISPOSAL SYSTEM PLAN

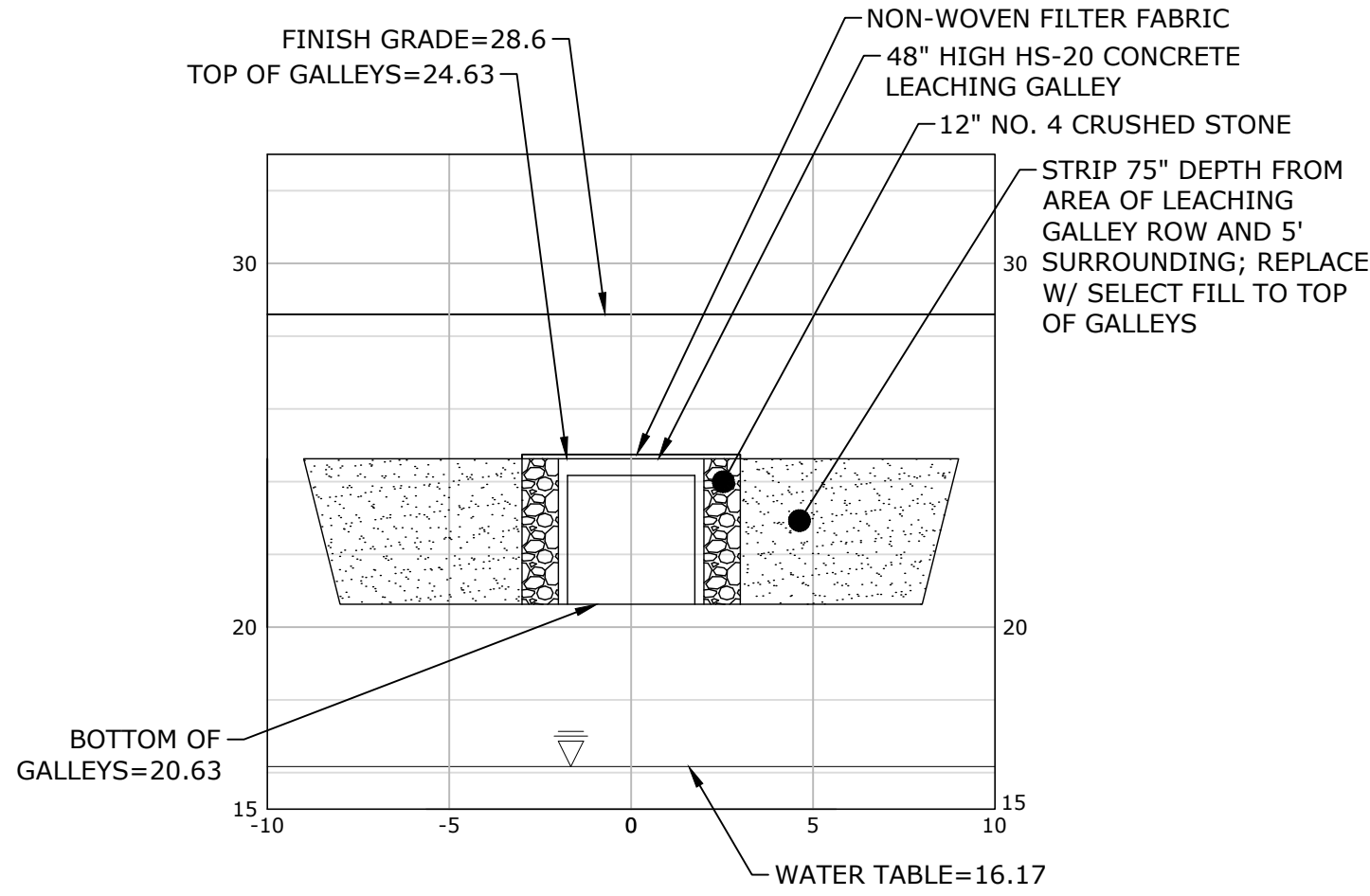
GALES FERRY INTERMODAL  
1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335  
GALES FERRY INTERMODAL LLC  
343 SOUTH STREET, SUITE 100, GALESFERRY, CT 06335

DRAWING  
**C-7**

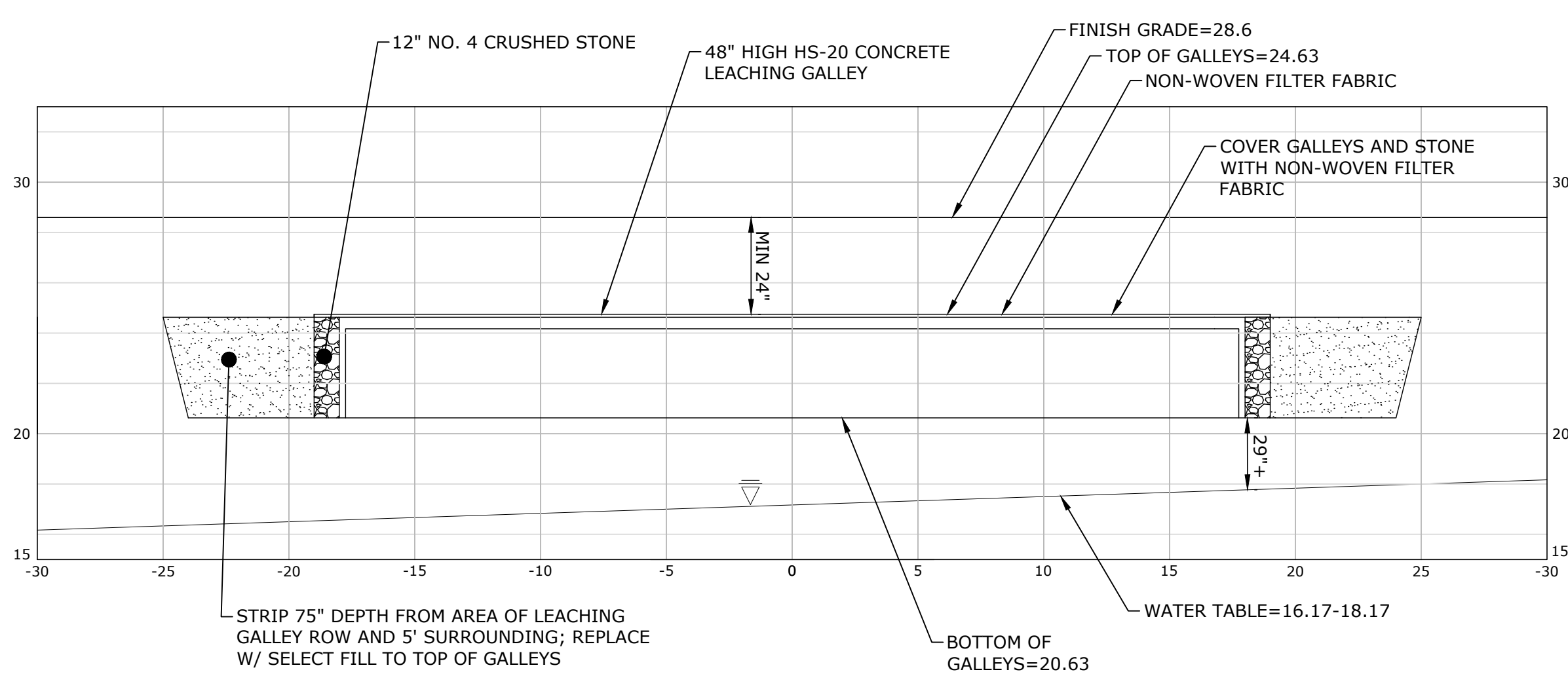
SHEET NO. 9 NO. OF SHEETS 20

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

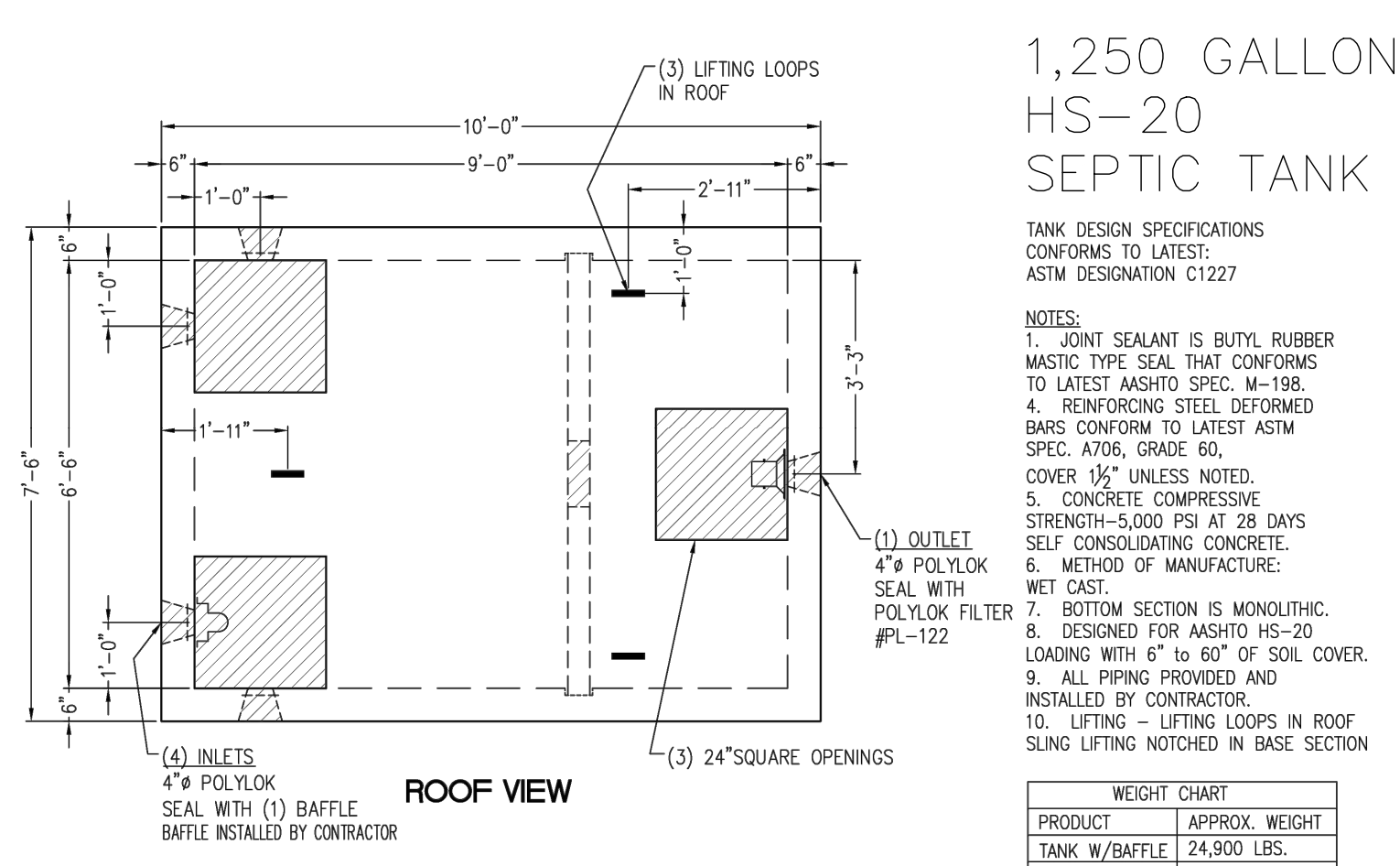
PZC CHAIRMAN OR SECRETARY \_\_\_\_\_ DATE \_\_\_\_\_



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



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

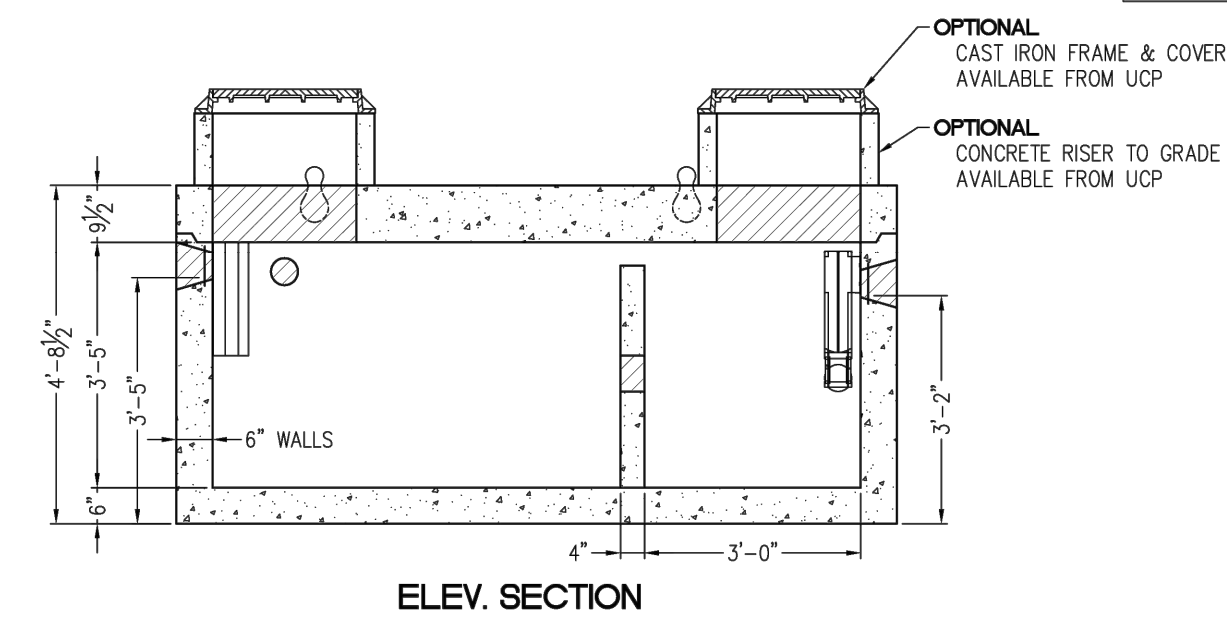


## 1,250 GALLON HS-20 SEPTIC TANK

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.  
4. REINFORCING STEEL DEFORMED  
BARS CONFORM TO LATEST ASTM  
SPEC. A706, GRADE 60.  
COVER 1 1/2" UNLESS NOTED.  
5. CONCRETE COMPRESSIVE  
STRENGTH-5,000 PSI AT 28 DAYS  
SELF CONSOLIDATING CONCRETE.  
6. METHOD OF MANUFACTURE:  
WET CAST.  
7. BOTTOM SECTION IS MONOLITHIC.  
8. DESIGNED FOR AASHTO HS-20  
LOADING WITH 6" TO 60" OF SOIL COVER.  
9. ALL PIPING PROVIDED AND  
INSTALLED BY CONTRACTOR.  
10. 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

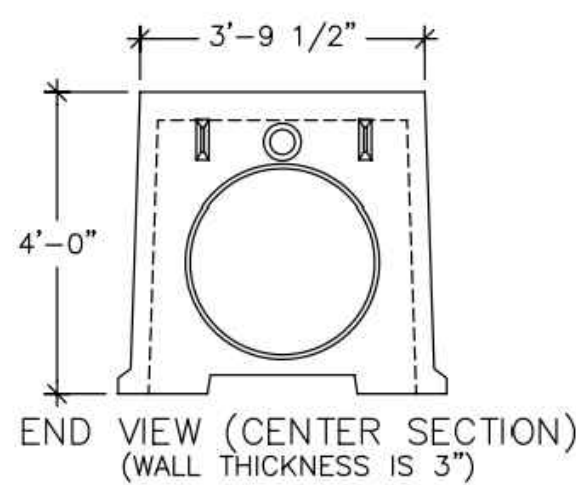
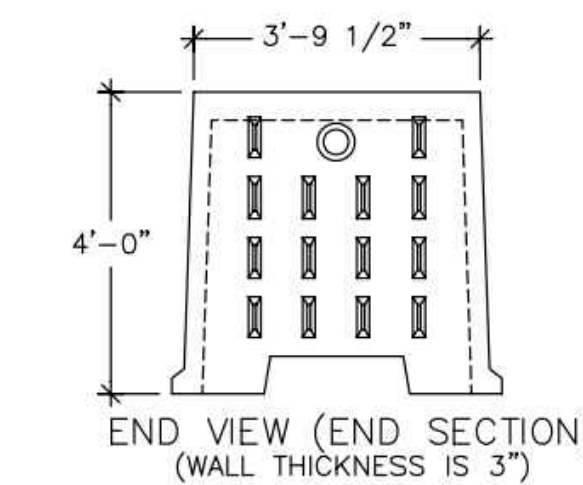
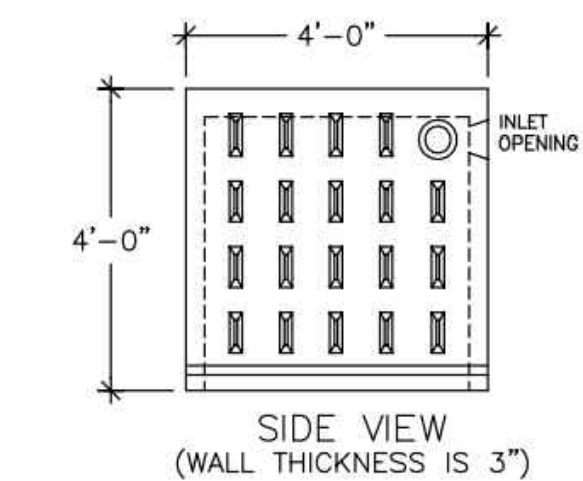
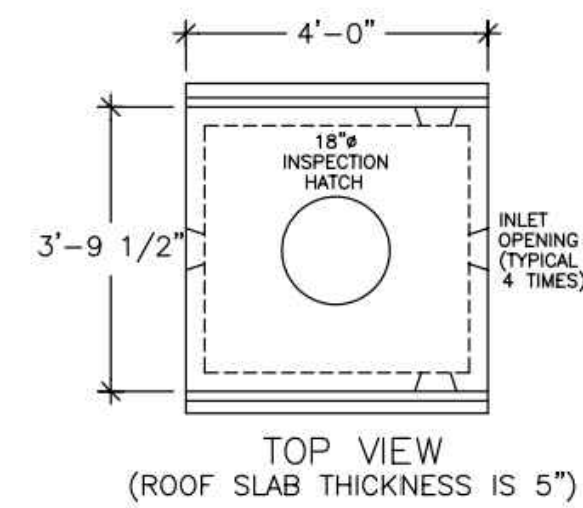
## 4'x4'x4' GALLEY HS-20 LEACHING CHAMBER

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 (Gall/LF) | LEACHING (FT 2/UNIT) | INSIDE CAPACITY (GALLONS) |
| 36                 | 9.2                | 36.8                 | 330                       |



## 48\"/>

NOT TO SCALE

## 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 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.
  - 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.

## 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              | 2.0           |
| 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

OBSERVED BY LOUREIRO ENGINEERING ASSOCIATES AND LEDGE LIGHT HEALTH DISTRICT ON MARCH 7, 2023

| 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

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

## TEST PIT LOG: TP-53

OBSERVED BY LOUREIRO ENGINEERING ASSOCIATES AND LEDGE LIGHT HEALTH DISTRICT ON MARCH 24, 2023

| 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

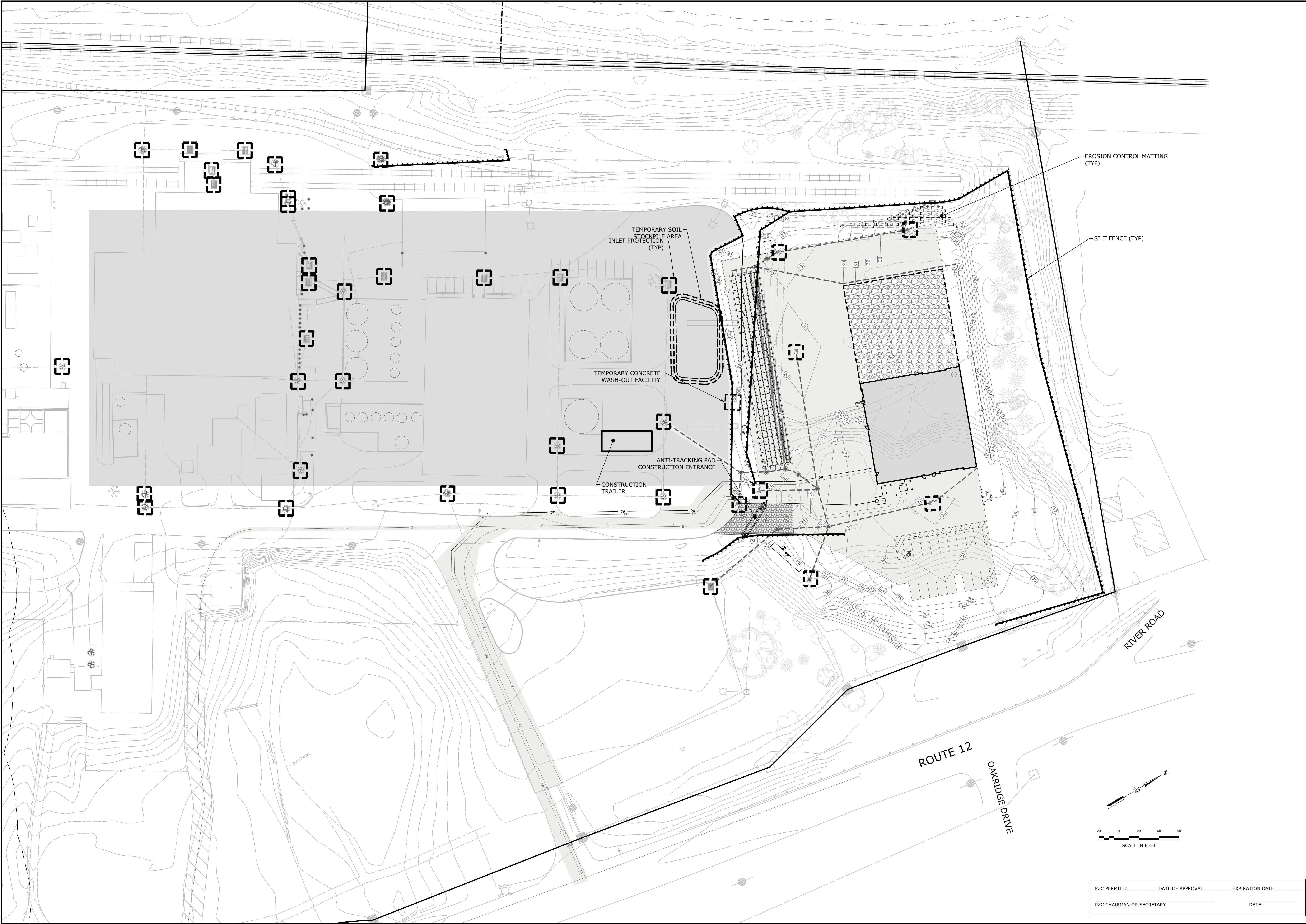
## SUBSURFACE SEWAGE DISPOSAL SECTIONS, DETAILS & NOTES

**GALES FERRY INTERMODAL**  
1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335  
**GALES FERRY INTERMODAL LLC**  
349 SOUTH STREET, QUINCY, MA 02169

**C-8**

SHEET NO. 10 NO. OF SHEETS 20

V:\ACT\GALES FERRY\ROUTE 12-1761\AS2024\LOCAL PERMIT FOR STEELING BUILDINGS\SOIL EROSION AND SEDIMENT CONTROL PLAN\DWG Tab: SOIL EROSION AND SEDIMENT CONTROL PLAN.Swd: 5/2/2023 2:02 PM by: ESKANABU.mrh: 5/2/2023 2:04 PM



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

|                                                                                 |  |                    |  |
|---------------------------------------------------------------------------------|--|--------------------|--|
| SOIL EROSION AND SEDIMENT CONTROL PLAN                                          |  | SCALE<br>1"=40'    |  |
| GALES FERRY INTERMODAL<br>1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335         |  | DRAWN BY<br>ESP    |  |
| GALES FERRY INTERMODAL LLC<br>383 SOUTH STREET, SUITE 101, GALESFERRY, CT 06335 |  | DATE<br>04/06/2023 |  |
| DRAWING<br>C-9                                                                  |  | APPROVED BY<br>SRM |  |
| SHEET NO. 11                                                                    |  | NO. OF SHEETS 20   |  |
|                                                                                 |  | REVISIONS          |  |
|                                                                                 |  | REV. 1             |  |
|                                                                                 |  | REV. 2             |  |
|                                                                                 |  | DATE 04/06/2023    |  |
|                                                                                 |  | SRM                |  |
|                                                                                 |  | DATE 05/01/2023    |  |
|                                                                                 |  | SRM                |  |
|                                                                                 |  | DATE               |  |
|                                                                                 |  | APPR.              |  |

**Loureiro**  
Water • Facility Services • Laboratory  
Engineering • Construction • EIR • EIR • EIR  
Loureiro Engineering Associates, Inc.  
1761 ROUTE 12, GALES FERRY, CT 06335  
Phone: 860-747-6181 • Fax: 860-747-8822  
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V:\ACT\GALES FERRY\ROUTE 12-1761\0451C2.06 LOCAL PERMIT FOR STEELING BUILDING\CONJUGLANDSCAPING PLAN.DWG The LANDSCAPING PLAN Sheet: 5/2/2023 12:18 PM by DSAMMER Printed: 5/2/2023 1:32 PM

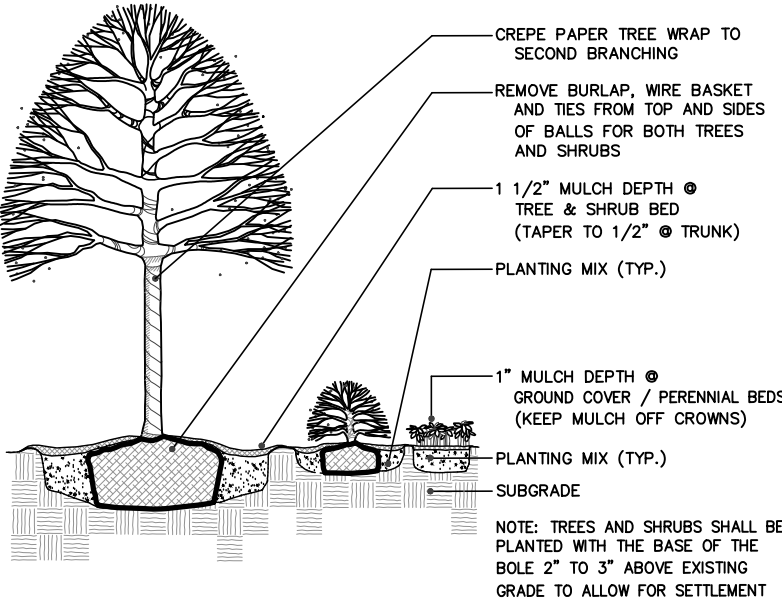
PLANT SCHEDULE

| 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                | DOGHOBLE                | 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.

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



PLANTING DETAIL - TYP  
NOT TO SCALE

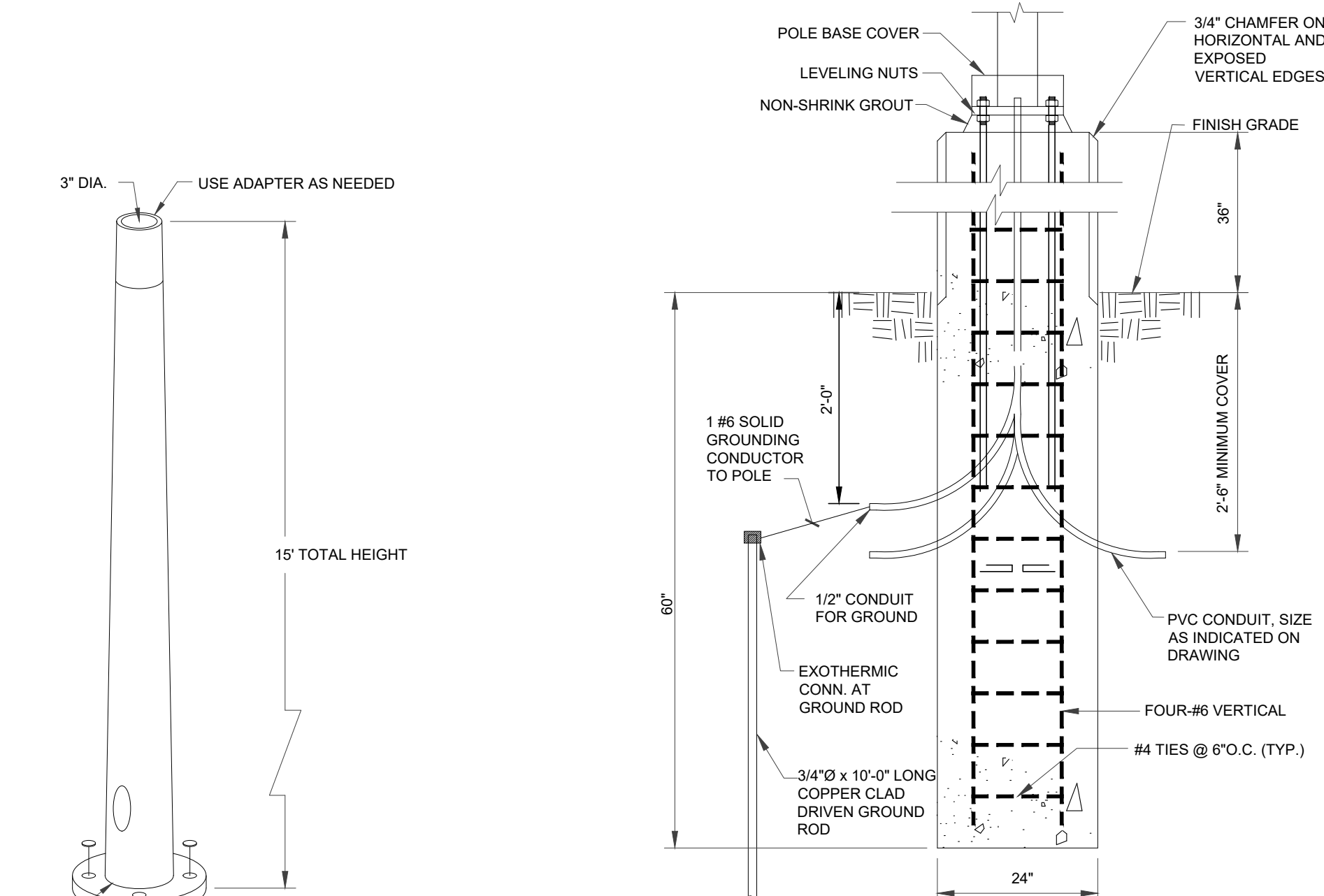


|                           |                  |                 |
|---------------------------|------------------|-----------------|
| PZC PERMIT #              | DATE OF APPROVAL | EXPIRATION DATE |
| PZC CHAIRMAN OR SECRETARY | DATE             |                 |

|                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                             |                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| STATE OF CONNECTICUT<br>DEPARTMENT OF TRANSPORTATION<br>REGISTERED PROFESSIONAL ENGINEER<br>No. 16285<br>G. LOUREIRO                                                                                                                                                                                            |  | REV. 1<br>DATE 04/06/2023<br>DESCRIPTION OF REVISION                                                                                                        | SRM<br>DATE 04/06/2023<br>SRM<br>DATE 05/01/2023 |
| Loureiro Engineering Associates, Inc.<br>Water & Utility Services & Laboratory<br>Engineers & Constructors & IT/IS & Energy<br>1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335<br>Phone: 860-747-6311 Fax: 860-747-8822<br>www.loureiroeng.com<br>©Loureiro Engineering Associates, Inc. All Rights Reserved 2023 |  | SCALE 1"=20'<br>COWI NO. 0451C2.06<br>DATE 04/05/2023<br>DRAWN BY ADP<br>APPROVED BY SRM                                                                    |                                                  |
| LANDSCAPING PLAN                                                                                                                                                                                                                                                                                                |  | GALES FERRY INTERMODAL<br>1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335<br>GALES FERRY INTERMODAL LLC<br>383 SOUTH STREET, SUITE 100, NEW BRITAIN, CT 06053 |                                                  |
| DRAWING<br>L-1                                                                                                                                                                                                                                                                                                  |  | SHEET NO. 12 NO. OF SHEETS 20                                                                                                                               |                                                  |

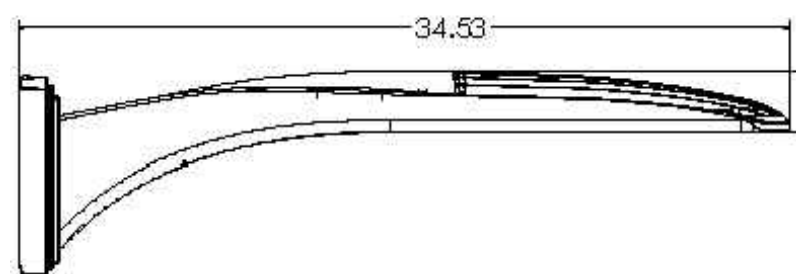
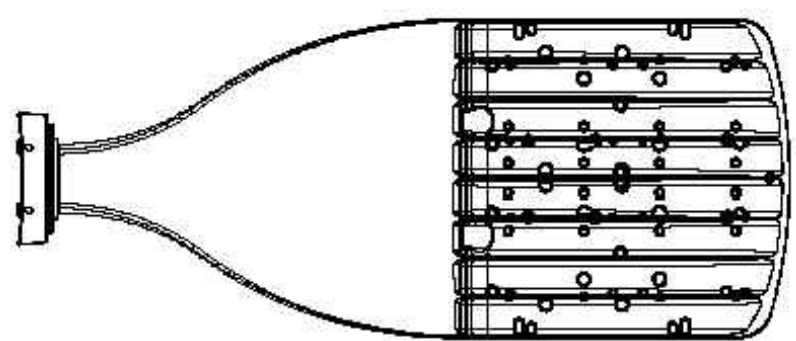
| SCHEDULE |         |          |                   |                           |                                             |              |                 |                   |         |
|----------|---------|----------|-------------------|---------------------------|---------------------------------------------|--------------|-----------------|-------------------|---------|
| 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                   | SYMBOL | AVG    | MAX    | MIN    | MAX/MIN | AVG/MIN |
|------------------------------|--------|--------|--------|--------|---------|---------|
| DESCRIPTION                  | +      | 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



### DSX1 with WBA

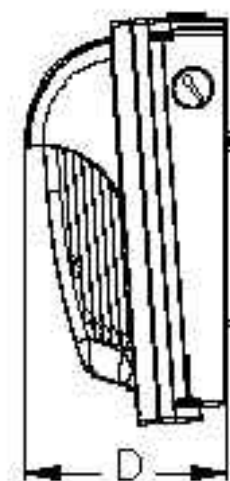
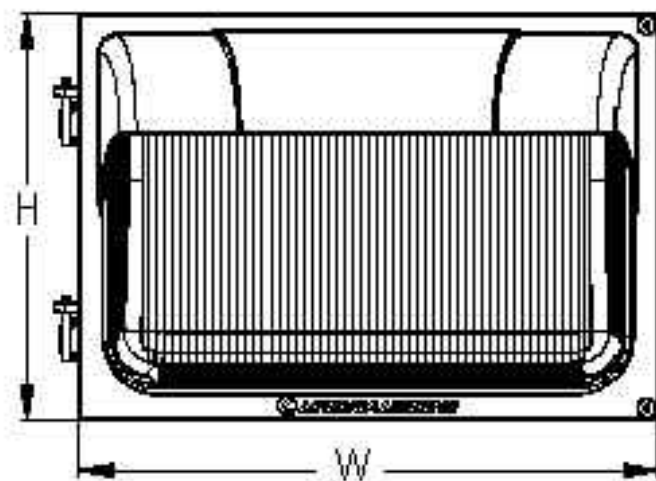
NOTES  
LITHONIA LIGHTING, DSX1 LED WITH WBA, P2, 40K,T3M/TFTM, MVOLT, HS (POLE MOUNT),

### POLE MOUNTED LIGHT

SCALE: NONE

### TWX2:

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



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

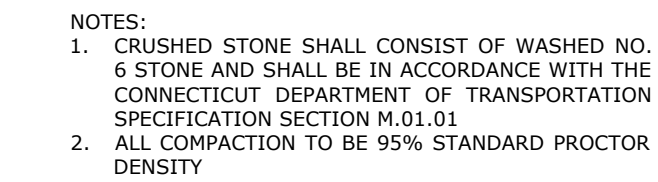
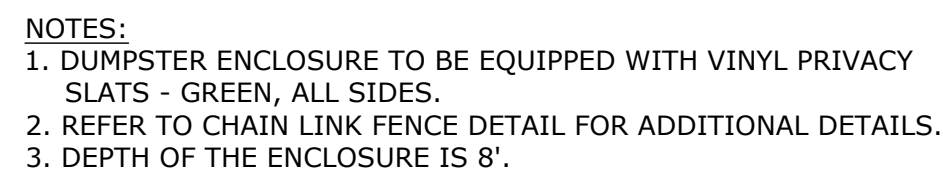
### WALL PACK LIGHT

SCALE: NONE

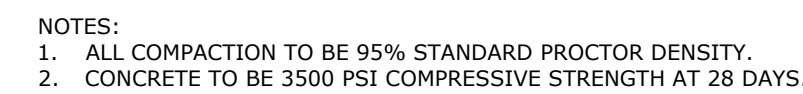


|                               |  |                                                                                                                                              |  |
|-------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------|--|
| PHOTOMETRIC AND LIGHTING PLAN |  | GALES FERRY INTERMODAL<br>1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335<br>GALES FERRY INTERMODAL LLC<br>333 SOUTH STREET, SUITE 102, B02439 |  |
| SCALE<br>1"=20'               |  | DRAWN BY<br>ESF                                                                                                                              |  |
| CONV. NO.<br>0451C2.06        |  | DATE<br>04/06/2023                                                                                                                           |  |
| APPROVED BY<br>SRM            |  | DATE<br>04/06/2023                                                                                                                           |  |
| SHEET NO. 13                  |  | NO. OF SHEETS 20                                                                                                                             |  |
| DRAWING<br>C-10               |  | REVISIONS<br>1 REV. DATE 04/06/2023<br>2 REV. DATE 04/06/2023                                                                                |  |
| PROJECT NO.<br>0451C2.06      |  | PROJECT NAME<br>STERLING INDUSTRIAL BUILDING                                                                                                 |  |
| DESIGNED BY<br>ESF            |  | CHECKED BY<br>SRM                                                                                                                            |  |
| DRAWN BY<br>ESF               |  | DATE<br>04/06/2023                                                                                                                           |  |
| APPROVED BY<br>SRM            |  | DATE<br>04/06/2023                                                                                                                           |  |
| PROJECT NO.<br>0451C2.06      |  | PROJECT NAME<br>STERLING INDUSTRIAL BUILDING                                                                                                 |  |
| DESIGNED BY<br>ESF            |  | CHECKED BY<br>SRM                                                                                                                            |  |
| DRAWN BY<br>ESF               |  | DATE<br>04/06/2023                                                                                                                           |  |
| APPROVED BY<br>SRM            |  | DATE<br>04/06/2023                                                                                                                           |  |
| SHEET NO. 13                  |  | NO. OF SHEETS 20                                                                                                                             |  |
| DRAWING<br>C-10               |  | REVISIONS<br>1 REV. DATE 04/06/2023<br>2 REV. DATE 04/06/2023                                                                                |  |
| PROJECT NO.<br>0451C2.06      |  | PROJECT NAME<br>STERLING INDUSTRIAL BUILDING                                                                                                 |  |
| DESIGNED BY<br>ESF            |  | CHECKED BY<br>SRM                                                                                                                            |  |
| DRAWN BY<br>ESF               |  | DATE<br>04/06/2023                                                                                                                           |  |
| APPROVED BY<br>SRM            |  | DATE<br>04/06/2023                                                                                                                           |  |

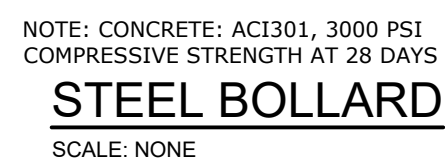




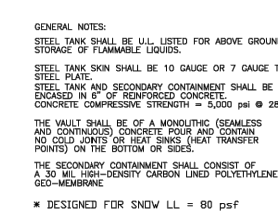
### GRAVEL SURFACE X-SECTION



**CONCRETE PAD**  
SCALE: NONE



- SCALE: NONE
- 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.

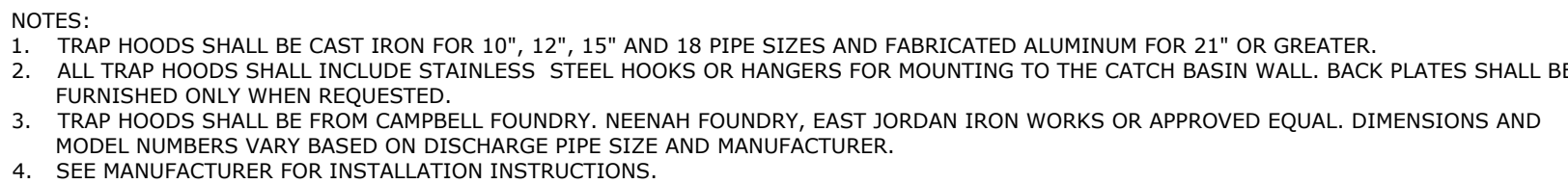


**1,000 GAL DIESEL STORAGE TANK**  
SCALE: NONE

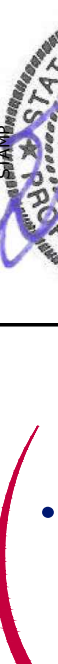
PZC PERMIT # \_\_\_\_\_ DATE OF APPROVAL \_\_\_\_\_ EXPIRATION DATE \_\_\_\_\_

PZC CHAIRMAN OR SECRETARY \_\_\_\_\_ DATE \_\_\_\_\_

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| DRAWING |  | SITE DETAILS 1 |  | SCALE<br>NOT TO SCALE<br>CORR. NO.<br>045IC2.06 |  | DRAWN BY<br>ESF<br>DATE<br>04/06/2023 |  | APPROVED BY<br>SRM<br>DATE<br>04/06/2023 |  | REVISIONS |  | REVISED PER UPDATED LAYOUT |  | REVISED PER UPDATED LAYOUT |  | REV. |  | DESCRIPTION OF REVISION |  | DATE |  | APR. |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SRM |  | SR |  |
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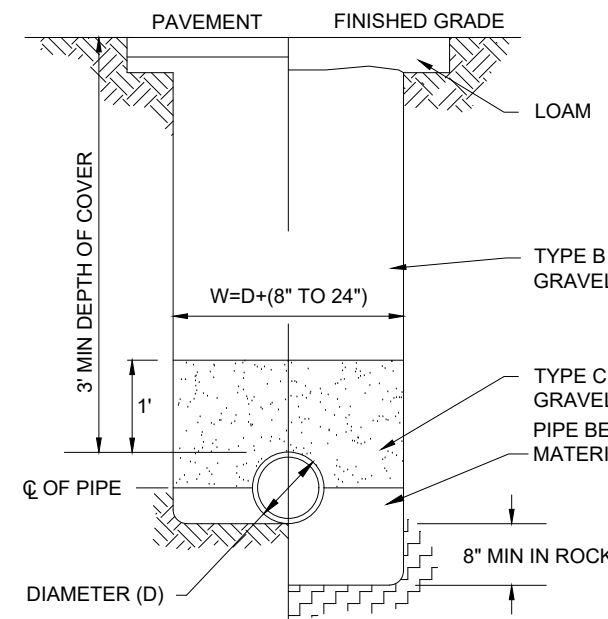
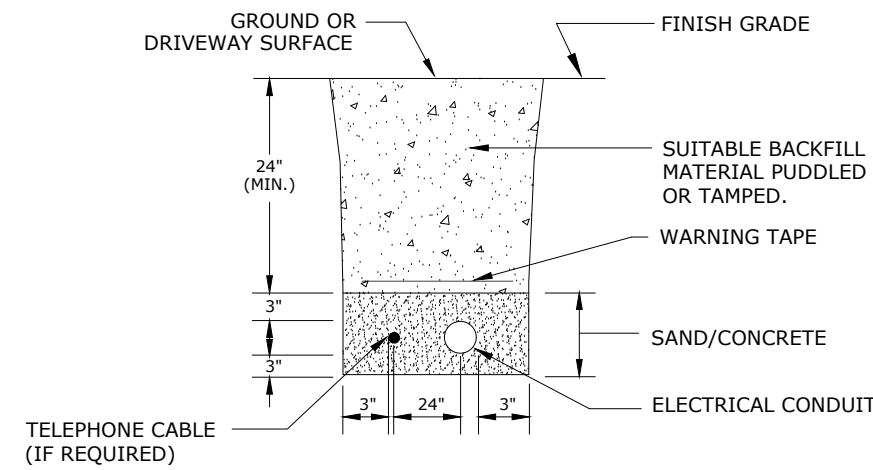
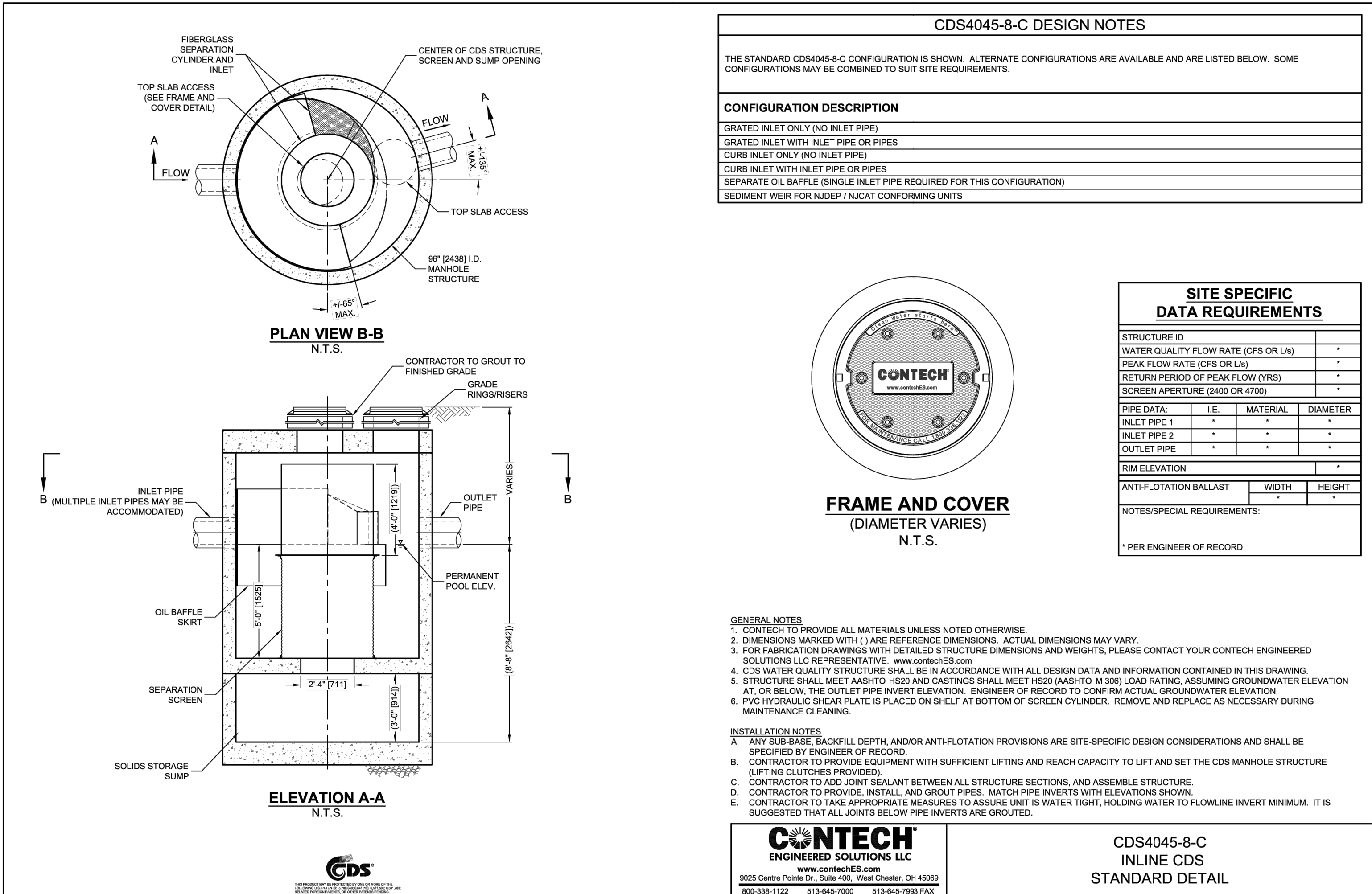


| PIPE SIZE | A               | B  | C              |
|-----------|-----------------|----|----------------|
| 10        | 12              | 20 | $6\frac{1}{2}$ |
| 12        | $15\frac{3}{4}$ | 22 | $7\frac{1}{2}$ |
| 15        | 18              | 25 | 9              |
| 18        | 20              | 27 | 10             |

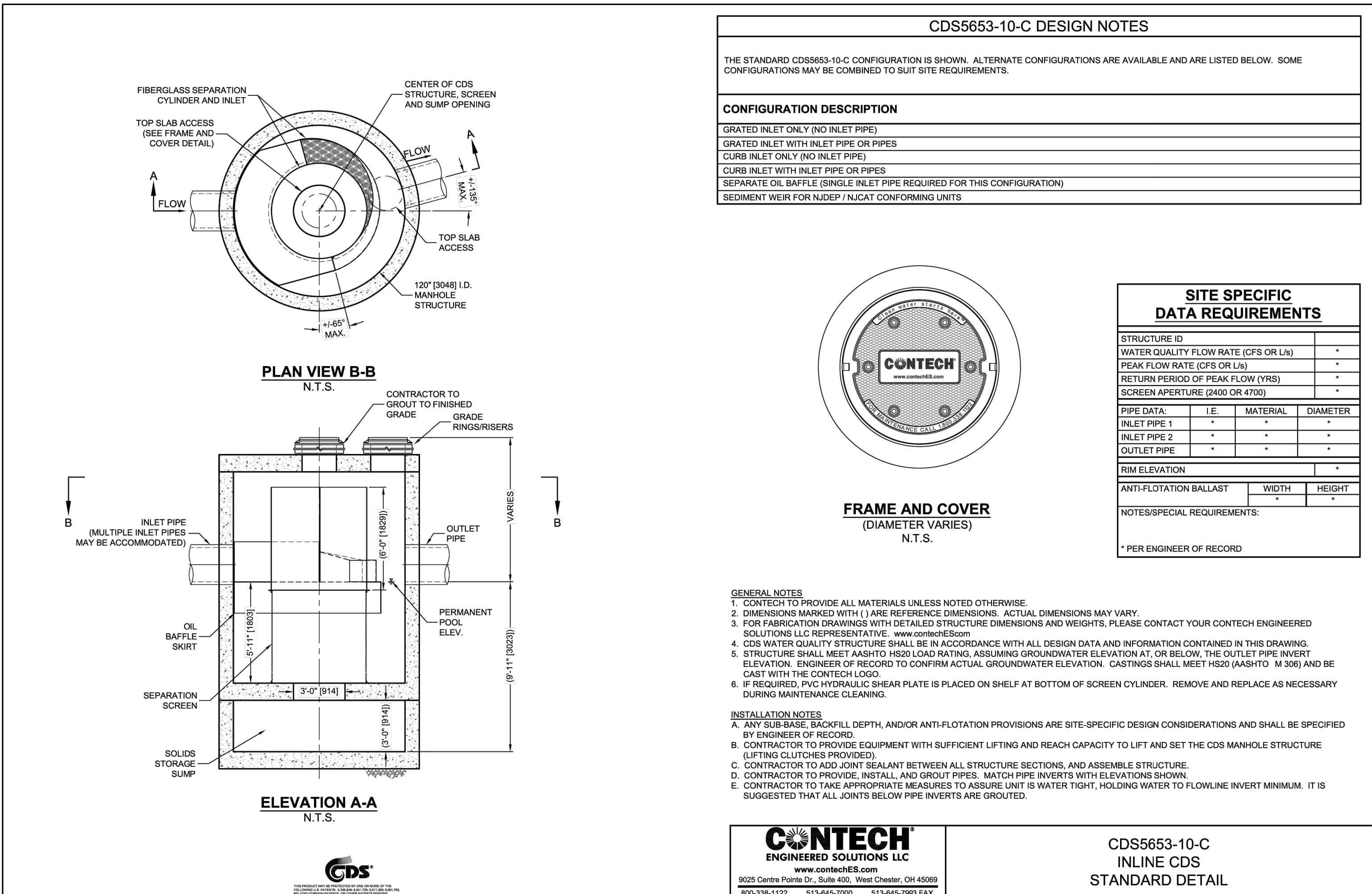
|         |  |                |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|---------|--|----------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| DRAWING |  | SITE DETAILS 2 |  | <div> <div>  <p><b>Loureiro</b><br/>Engineering &amp; Construction, Inc.<br/>100 North Main Street, Suite 200<br/>New Britain, CT 06053<br/>Tel: 860-729-0100<br/>www.Loureiro.com</p> </div> <div> <p><b>GALES FERRY INTERMODAL LLC</b><br/>1764 ROUTE 12, GALES FERRY, CONNECTICUT 06335</p> <p><b>GALES FERRY INTERMODAL LLC</b><br/>1764 ROUTE 12, GALES FERRY, CONNECTICUT 06335</p> </div> </div> |  | <div> <div> <div>SCENE</div> <div>NOT TO SCALE</div> <div>045XC2.06</div> </div> <div> <div>DRAWN BY</div> <div>DATE</div> <div>04/06/2023</div> </div> <div> <div>ESF</div> <div>DATE</div> <div>04/06/2023</div> </div> <div> <div>APPROVED BY</div> <div>DATE</div> <div>04/06/2023</div> </div> <div> <div>SRM</div> <div>DATE</div> <div>04/06/2023</div> </div> </div> |  | <div> <div>  </div> <div> <div>2</div> <div>REVISED PER UPDATED LAAYOUT</div> <div>SRM</div> <div>DATE</div> <div>05/01/2023</div> </div> <div> <div>1</div> <div>REVISED PER UPDATED LAAYOUT</div> <div>SRM</div> <div>DATE</div> <div>04/06/2023</div> </div> <div> <div>REV.</div> <div>DESCRIPTION OF REVISION</div> <div>APPR.</div> </div> </div> |  |
|---------|--|----------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

V:\CADD\GALES FERRY\ROUTE 12-17A\USDC2.DWG LOCAL PREPARED FOR STEELING BUILDING\CONCRETE\DETAILS.DWG Tab: SITE DETAILS 3, Sheet: 5/2/2023 11:14 PM by: F5466666 Revised: 5/2/2023 11:14 PM

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

PZC CHAIRMAN OR SECRETARY \_\_\_\_\_ DATE \_\_\_\_\_

**SITE DETAILS 3**

**GALES FERRY INTERMODAL**  
1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335  
**GALES FERRY INTERMODAL LLC**  
343 SOUTH STREET, SUITE 201, WATSONVILLE, CA 95076

DRAWING  
**C-14**

SHEET NO. 17 NO. OF SHEETS 20



**Loureiro**  
Water & Facility Services • Laboratory  
Engineering • Construction • EIR • Energy  
Loureiro Engineering Associates, Inc.  
1761 Route 12, Gales Ferry, CT 06335  
Phone: 860-747-6316 • Fax: 860-747-6822  
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DATE  
04/06/2023  
APPROVED BY  
SRM  
DATE  
04/06/2023

REVISIONS  
REV. 1  
DESCRIPTION OF REVISION  
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REV. 2  
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REV. 3  
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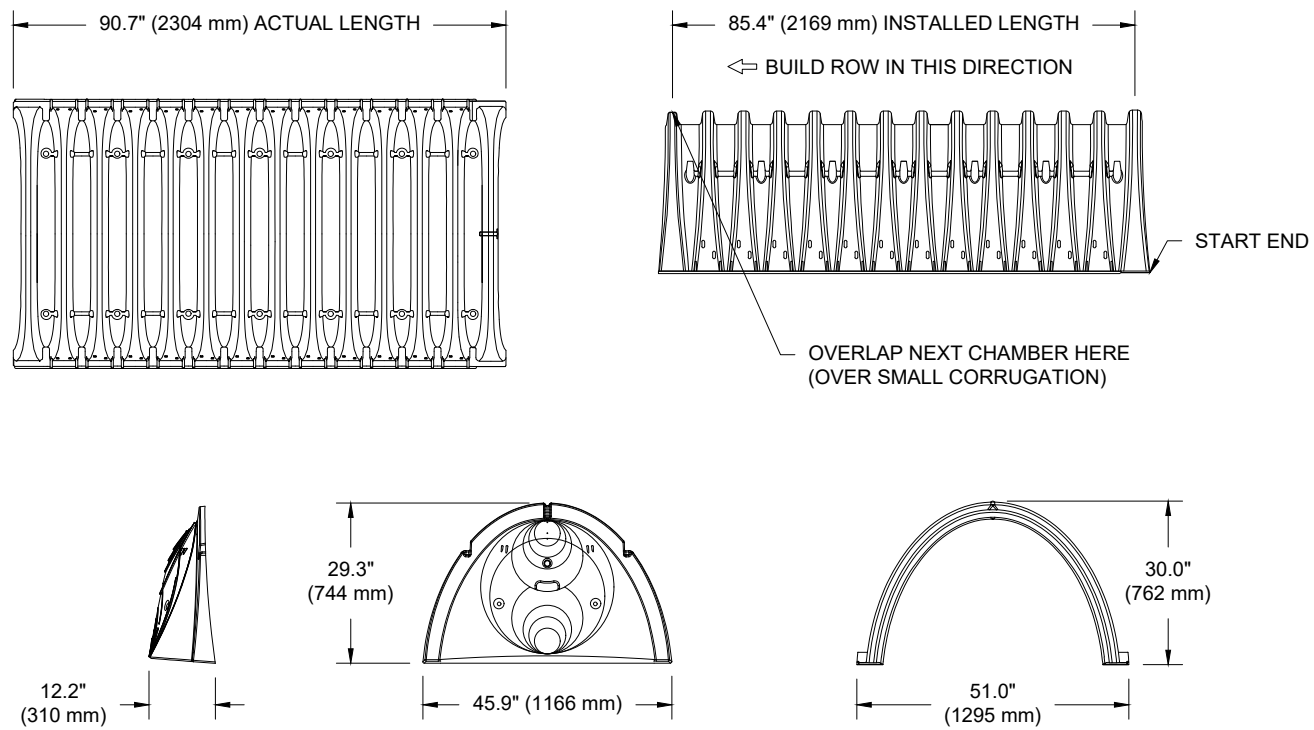
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| NOMINAL CHAMBER SPECIFICATIONS  | 51.0" X 30.0" X 85.4" | (1295 mm X 762 mm X 2169 mm) |
|---------------------------------|-----------------------|------------------------------|
| SIZE (W X H X INSTALLED LENGTH) | 45.9 CUBIC FEET       | (1.30 m³)                    |
| CHAMBER STORAGE                 | 74.9 CUBIC FEET       | (2.12 m³)                    |
| MINIMUM INSTALLED STORAGE*      | 75.0 lbs.             | (33.6 kg)                    |
| WEIGHT                          |                       |                              |

\*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)  |

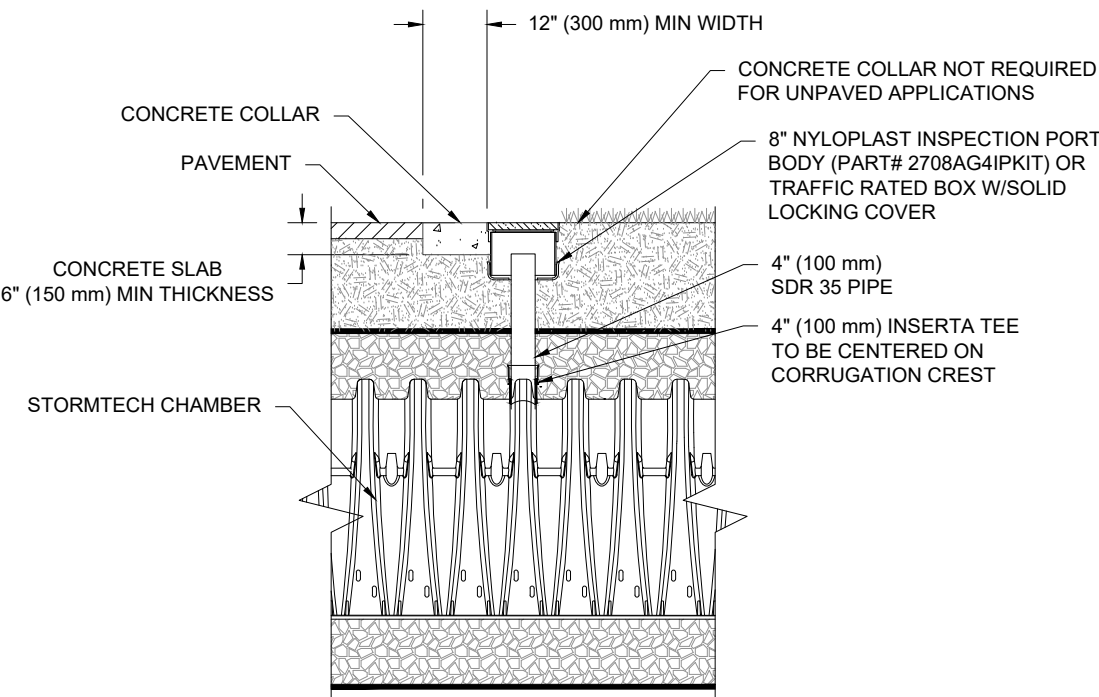
ALL STUBS, EXCEPT FOR THE SC740EPE24B/SC740EPE24BR ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

\* 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

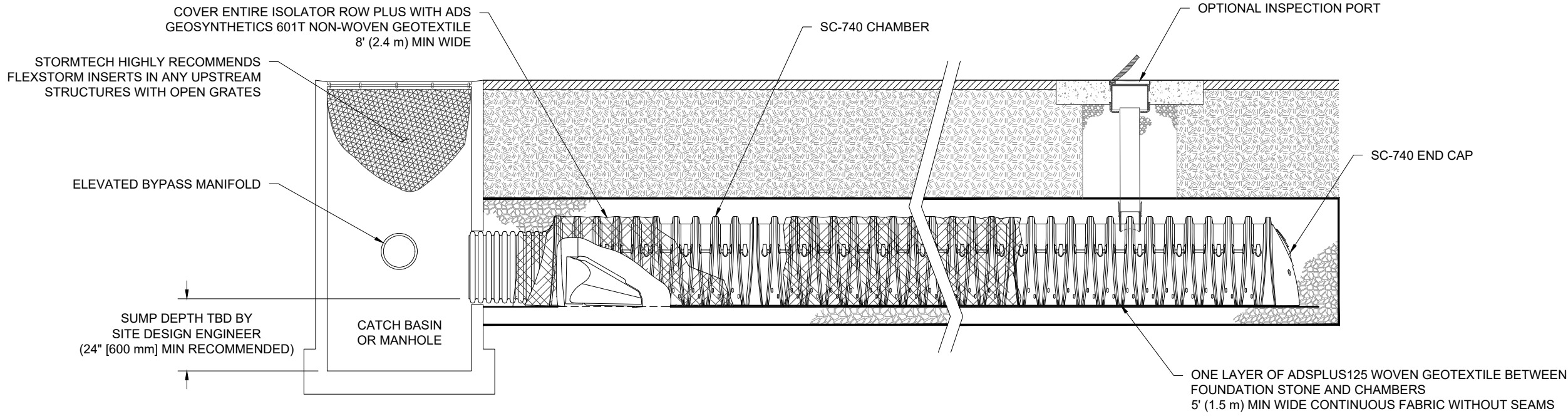
SCALE: NONE



NOTE: INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

## STORMTECH SC-740 4" INSPECTION PORT DETAIL

SCALE: NONE



## STORMTECH SC-740 ISOLATOR ROW DETAIL

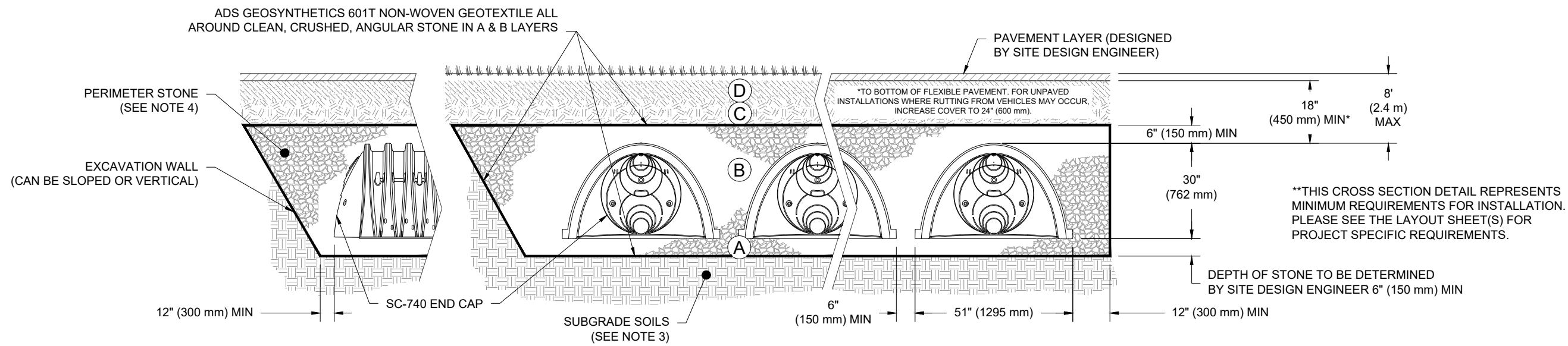
SCALE: NONE

## ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

| MATERIAL LOCATION | DESCRIPTION                                                                                                                                                                                                      | AASHTO MATERIAL CLASSIFICATIONS                                                                                                                                                | COMPACTION / DENSITY REQUIREMENT                                                                                                                                                                                                                                                                                                                                   |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D                 | <b>FINAL FILL:</b> 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                 | <b>INITIAL FILL:</b> 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.<br>OR<br>AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | 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                 | <b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.                                                                                              | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57                                                                                                                           | NO COMPACTION REQUIRED.                                                                                                                                                                                                                                                                                                                                            |
| A                 | <b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.                                                                                                           | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57                                                                                                                           | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>                                                                                                                                                                                                                                                                                                    |

PLEASE NOTE:

- 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".
- 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.
- 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.
- 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/FT<sup>3</sup> 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 \_\_\_\_\_

## STORMWATER DETAILS

GALES FERRY INTERMODAL  
1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335  
GALES FERRY INTERMODAL LLC  
343 SOUTH STREET, SUITE 102, BRIDGEPORT, CT 06606

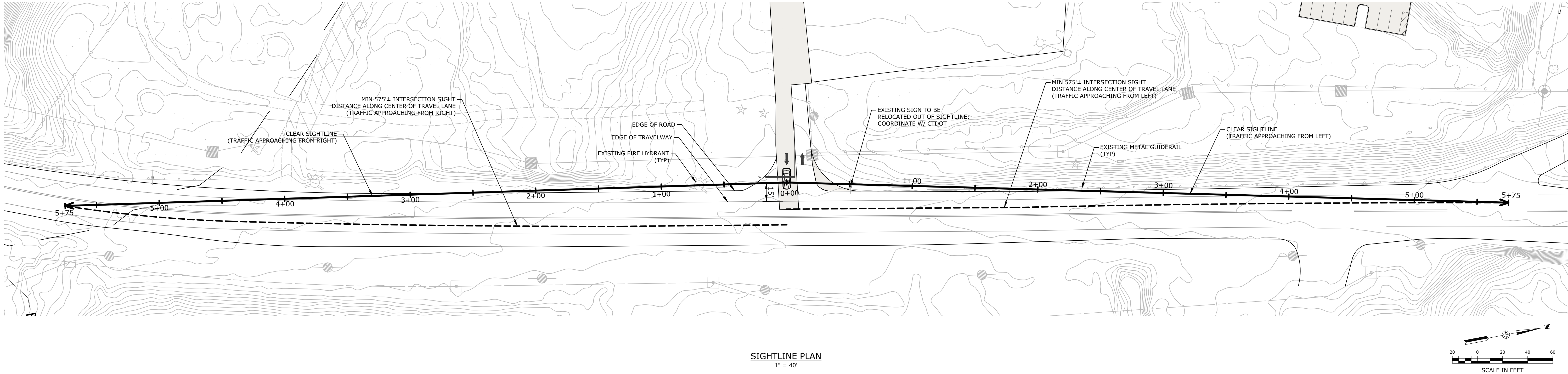
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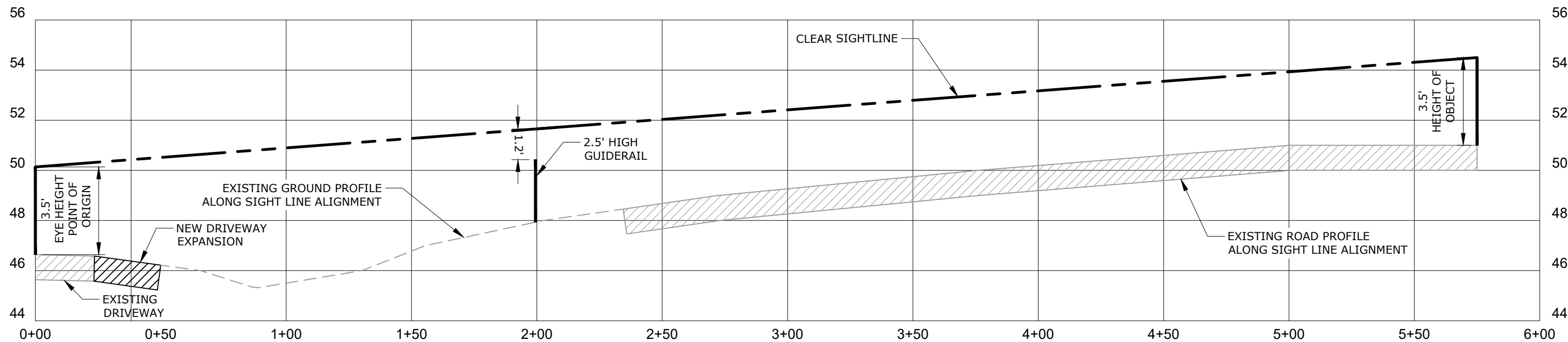
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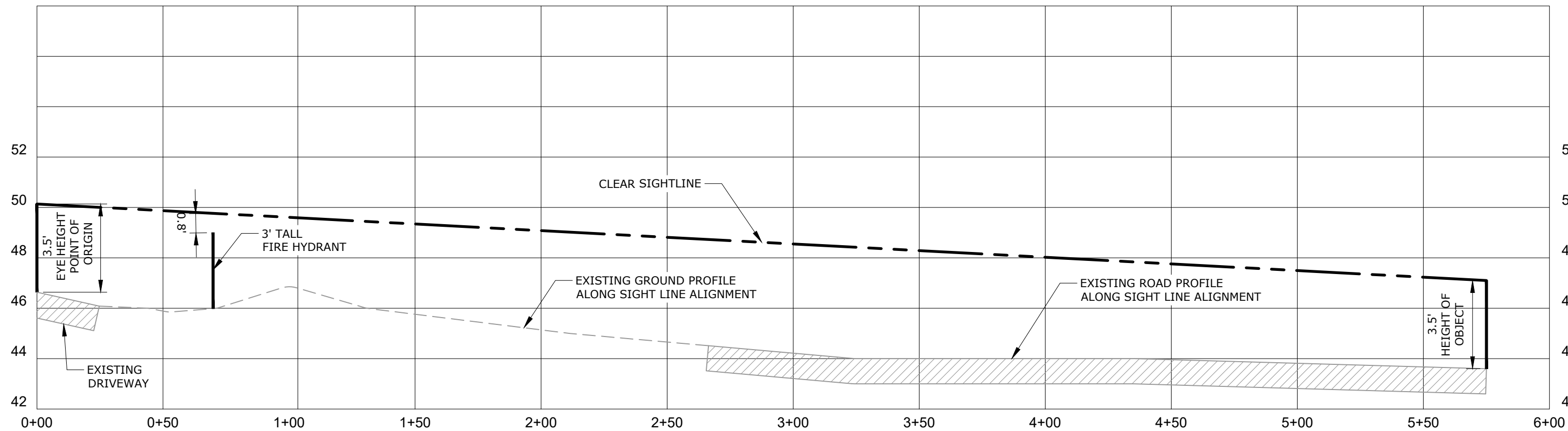
\\ACT\GALES\_FERRY\ROUTE 12-17A\0451C2.dwg LOCAL PERMIT FOR STEELING BUILDING\0451C2\0451C2.dwg: SIGHTLINE DEMONSTRATION PLAN.dwg Plot by: C:\ASAPRIB: 5/2/2023 1:14 PM



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.

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

|                                                                                                 |    |                                 |            |     |            |      |
|-------------------------------------------------------------------------------------------------|----|---------------------------------|------------|-----|------------|------|
| STATE OF CONNECTICUT<br>OFFICE OF THE REGISTERED PROFESSIONAL ENGINEER<br>No. 10281<br>LOUREIRO |    | 2<br>REVISED PER UPDATED LAYOUT | 05/01/2023 | SRM | 05/01/2023 | DATE |
|                                                                                                 |    | 1<br>REV.                       | 04/06/2023 | SRM | 04/06/2023 | DATE |
|                                                                                                 |    | DESCRIPTION OF REVISION         |            |     |            |      |
| SIGHTLINE DEMONSTRATION PLAN                                                                    |    |                                 |            |     |            |      |
| GALES FERRY INTERMODAL<br>1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335                         |    |                                 |            |     |            |      |
| GALES FERRY INTERMODAL LLC<br>393 SOUTH STREET, SUITE 100, GALESFERRY, CT 06335                 |    |                                 |            |     |            |      |
| DRAWING<br>C-17                                                                                 |    |                                 |            |     |            |      |
| SHEET NO.                                                                                       | 20 | NO. OF SHEETS                   | 20         |     |            |      |