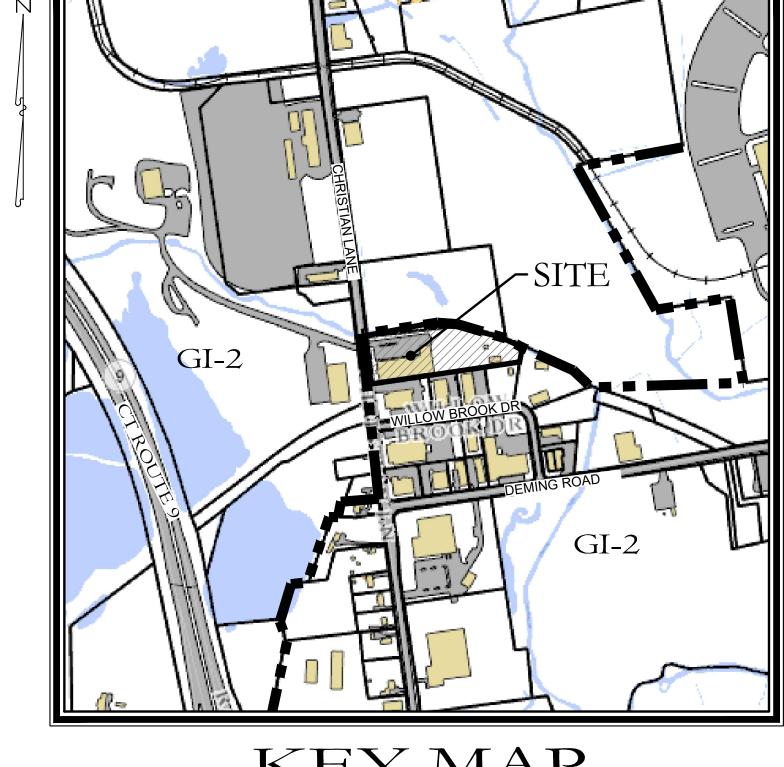
COLE engineering. surveying. planning.



KEY MAP SCALE: 1"=500'

PREPARED FOR

PDS Engineering & Construction, INC. March 20, 2023

Proposed Building Addition

Sheet Index:

Property & Topographic Survey Map
Site Layout & Landscaping Plan
Site Development Plan
Soil Erosion & Sedimentation Control Plan
Soil Erosion & Sediment Control Details
Details

400 Christian Lane Berlin, Connecticut

Applicant:

PDS Engineering & Construction, INC. 107 Old Windsor Road Bloomfield, CT 06002

Property Owner:

JJD Realty Associates, LLC 400 Christian Lane Kensington, CT 06037

Consultants:

Engineering & Surveying Harry E. Cole & Son P.O. Box 44 - 876 South Main Street Plantsville, Connecticut 06489 Tel. (860) 628-4484 Fax (860) 620-0196

01	April 17, 2023	Revised per Town Comments	
	March 20, 2023	First Submittal Set	#1169

LEGEND

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533

=	Existing	utility	pole
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- = Existing light pole
- Existing fire hydrant
- = Existing water valve
- Existing gas valve = Existing underground pipe
 - = Existing edge of pavement
 - = Existing bituminous concrete lip curb
 - = Existing well
 - = Existing catch basin Existing drainage manhole
 - Existing sanitary manhole
 - Existing utility box
- ---- = Existing contour
 - Existing spot elevation
 - Existing iron pin
 - = Existing drill hole
 - = Existing monument = Existing Trees

Ex. Island w/Lamp

Ex.CB TF=43.98

HR

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ANE

46

Ex.CB TF=44.50

SURVEY NOTES:

1. This map has been prepared pursuant to the Regulation of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996.

- 2. Type of survey performed: Property & Topographic Survey
- 3. Boundary determination category: Dependant Resurvey
- 4. Class of accuracy: Horizontal: A-2 Vertical: T-2

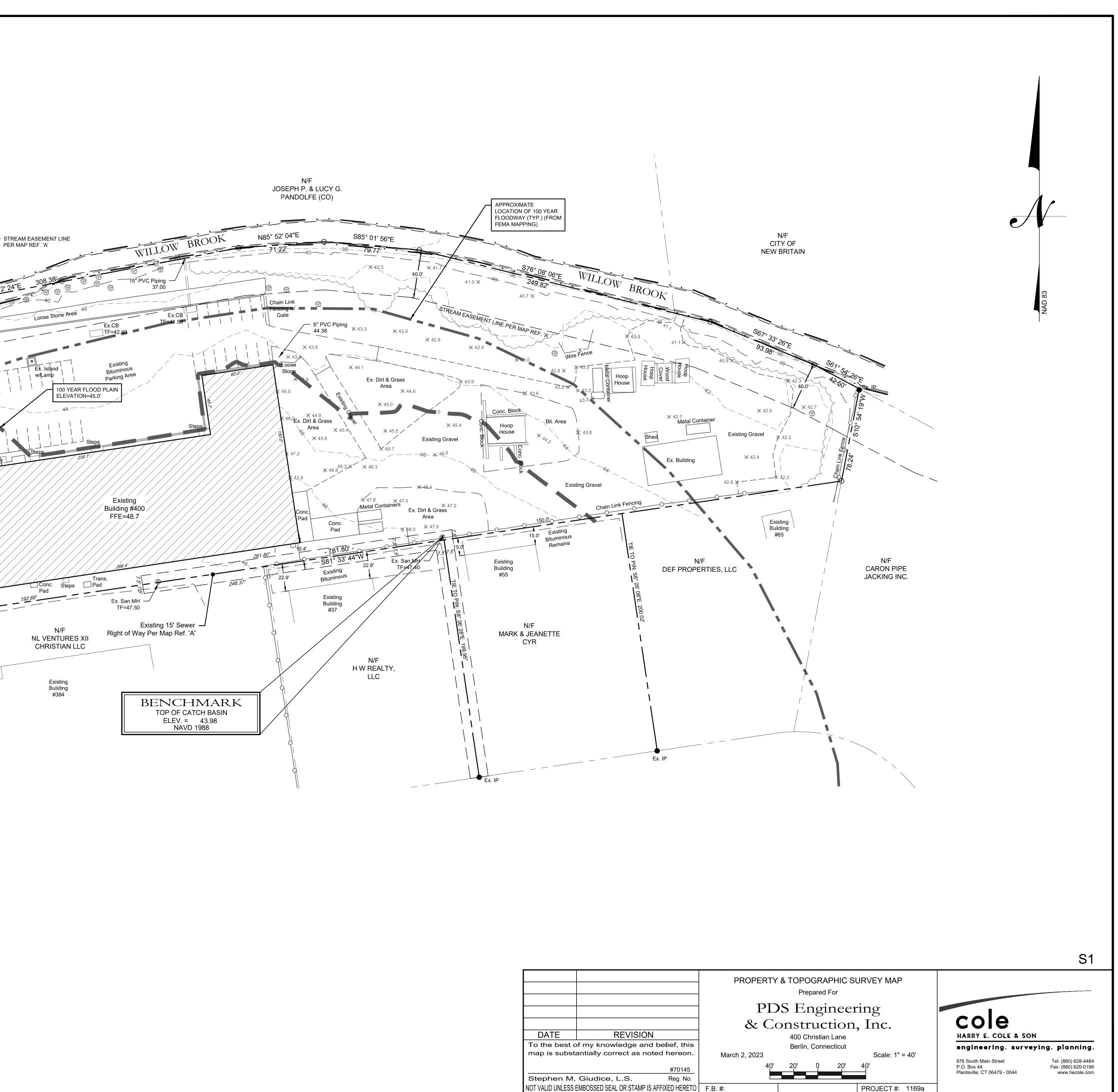
5. The intent of this map is to depict or note the position of boundaries with respect to: (A) locations of all boundary monumentation found or set; (B) Apparent improvements and features, including as a minimum: dwellings, barns, garages, sheds, driveways, roadways, surface utilities, visible bodies of water and swimming pools; (C) record easements and visible means of ingress and egress; (D) record and apparent means of ingress and egress; (E) lines of occupation, including as a minimum: fences, walls, hedges and yards; (F) deed restrictions pertaining to the location of buildings or other apparent improvements; (G) unresolved conflicts with record deed descriptions and maps; (H) all apparent boundary encroachments; and (I) monumentation required to be set at all corners created by a deflection angle of not less than 70 degrees between two consecutive courses at an intervals not to exceed 600 feet (180 meters) along the boundaries between said corners, except where natural or man-made monumentation defines or occupies the line.

- 6. Map References:
- a) "Subdivision Plan of D & D Industrial Park, Section 4, Property of Valier J. Daigle and Victor J. Dufault on Willow Brook Drive and Christian Lane, Berlin, Connecticut; Scale:1"=40'; Dated: March 18, 1968, Approved by Barry V. Squillaciote P.E. & L.S., Filed as Volume 18, Page 906 at the B.L.R."

7. Per agreement with property owner no boundary corners were set by this survey unless noted hereon. All monumentation found is depicted or noted hereon.

- 8. Zone: GI-2
- 9. Total area: 175,776 sq. ft. 4.04 acres
- 10. Owner: JJD Realty Associates, LLC
- 11. City of Berlin Assessors Map #4-3 Lot #3A
- 12. Filed in Volume 213, Page 519 of the City Clerk's office.
- 13. Contour interval is (2) foot.
- 14. Existing contours generated from field topography.

15. This survey does not include the location of any underground improvements or encroachments, subsurface utility lines or buried debris. Nor does it necessarily reflect the existence of any waste dumps or hazardous materials. The underground items depicted or noted are approximate and are not guaranteed. Notify "CALL BEFORE YOU DIG" 1-800-922-4455 prior to any excavation operations.



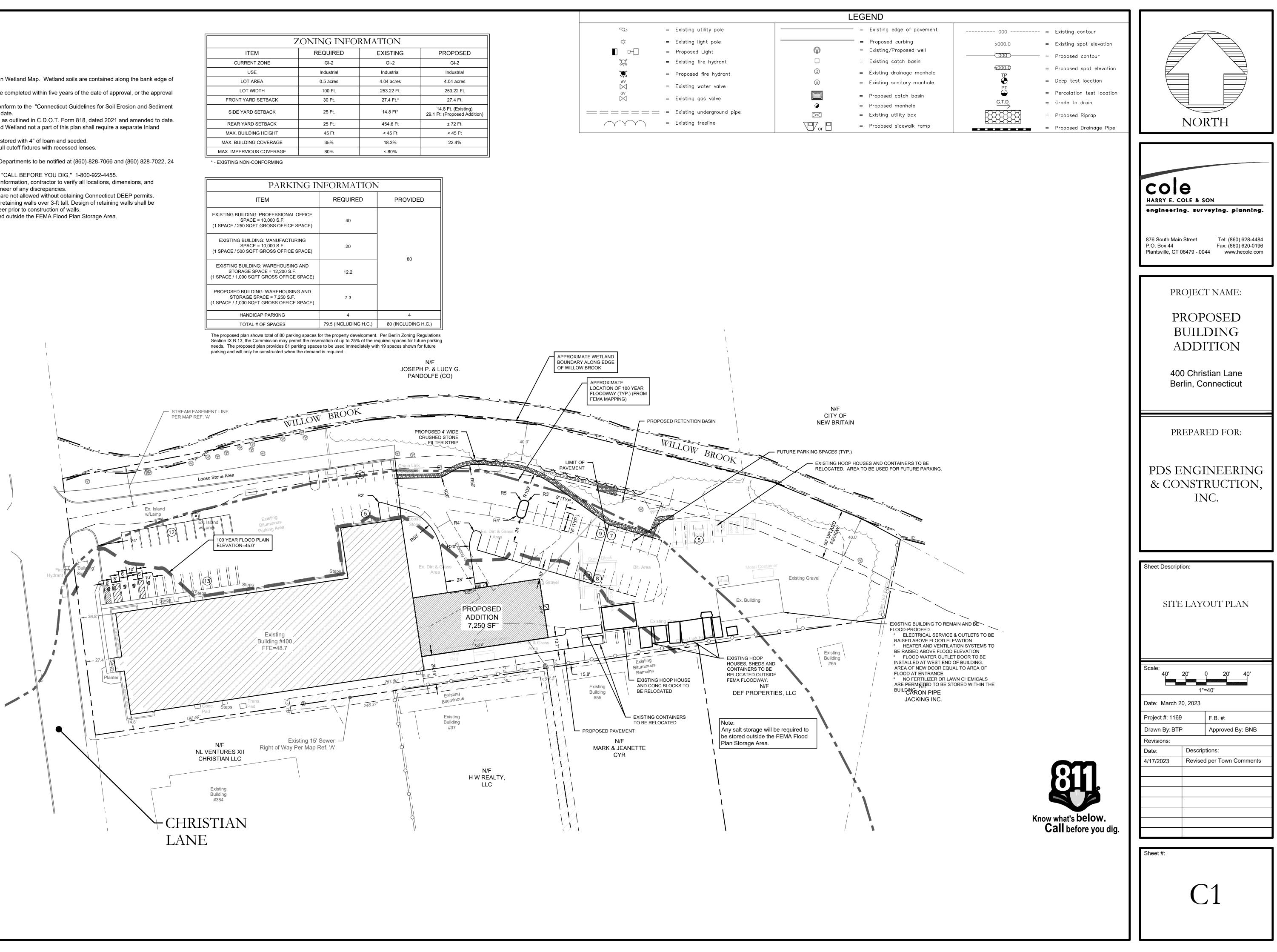
DATE	REV
To the best c	of my knowledg
map is substa	antially correct
Stephen M.	Giudice, L.S
NOT VALID UNLESS F	EMBOSSED SEAL OR S

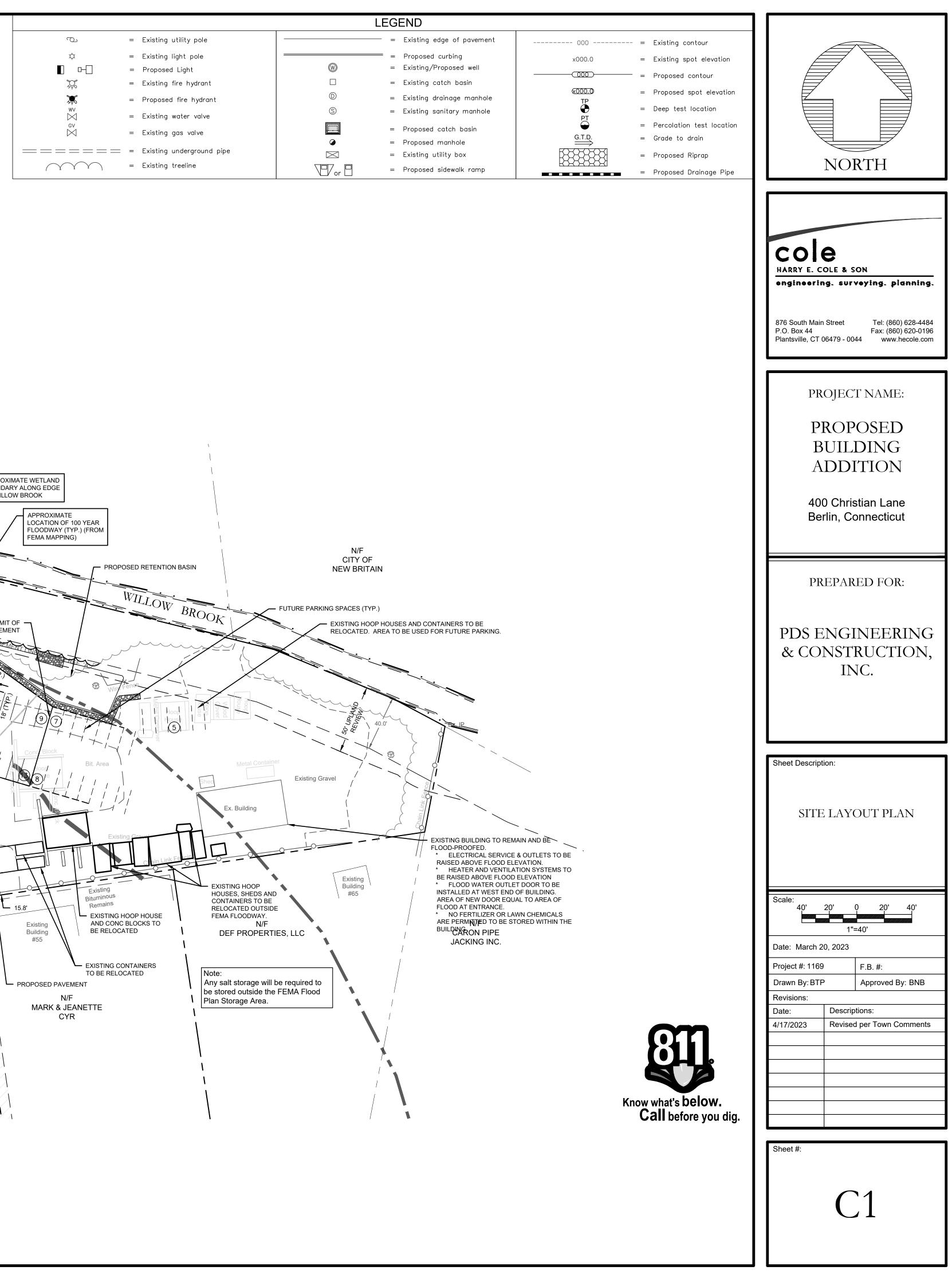
SITE PLAN NOTES:

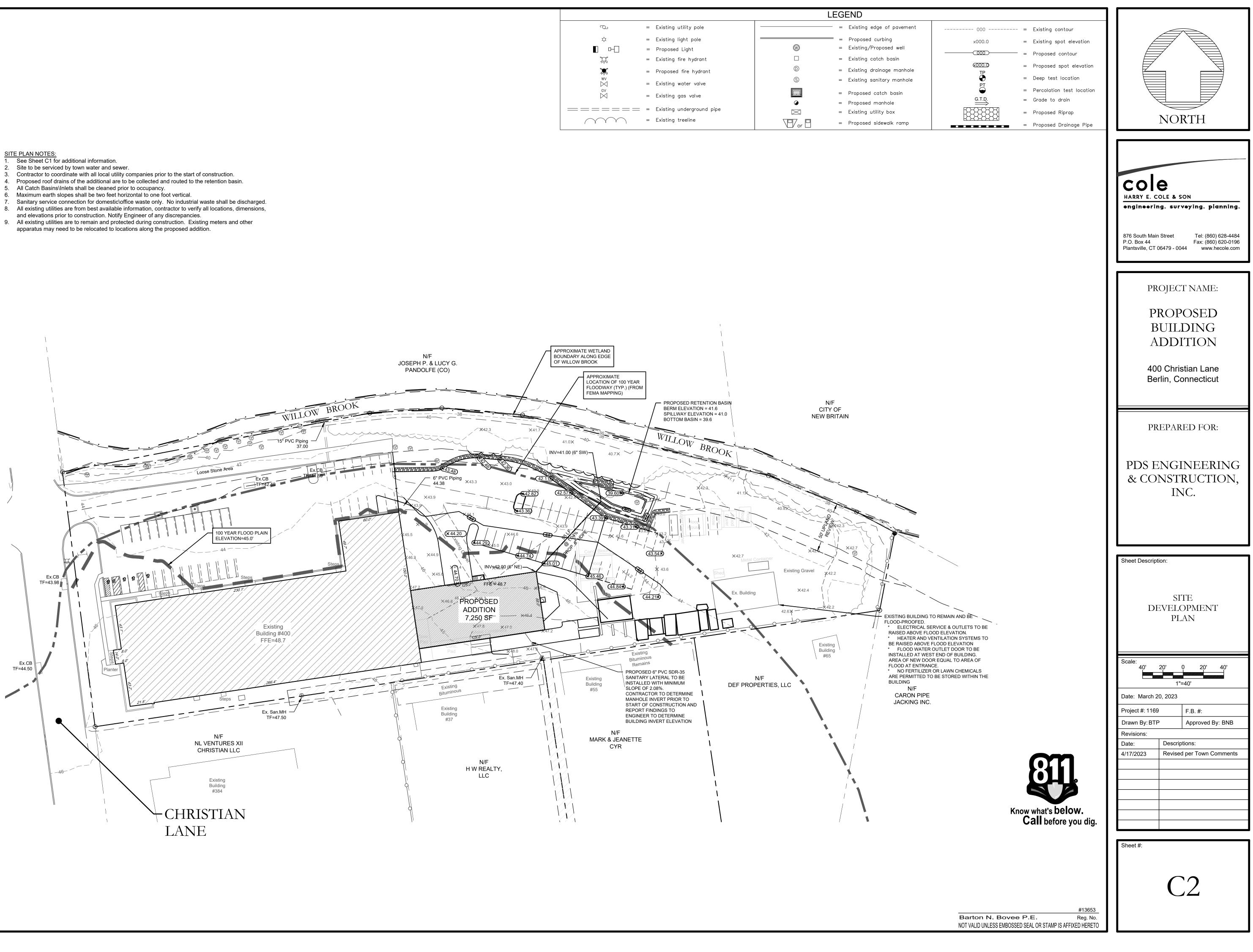
- Owner: JDD Realty Associates, LLC Applicant: Delmar Products
- Street #: 400 Christian Lane
- Area of Parcel: 175,776 SF
- Parcel is zoned: GI-2 Present use: Industrial
- Proposed use: Industrial
- Wetlands are present per the Town of Berlin Wetland Map. Wetland soils are contained along the bank edge of 8. Willow Brook.
- 9. All work in connection with this plan shall be completed within five years of the date of approval, or the approval is no longer valid.
- 10. Erosion and Sedimentation control shall conform to the "Connecticut Guidelines for Soil Erosion and Sediment Control" dated May 2002, and amended to date.
- 11. All site work shall conform to specifications as outlined in C.D.O.T. Form 818, dated 2021 and amended to date. 12. Any regulated activity in a designated Inland Wetland not a part of this plan shall require a separate Inland
- Wetland Permit. 13. All areas disturbed by construction to be restored with 4" of loam and seeded.
- 14. All exterior light fixtures shall be LED and full cutoff fixtures with recessed lenses.
- 15. Underground fuel tanks are prohibited. 16. Town of Berlin Planning and Engineering Departments to be notified at (860)-828-7066 and (860) 828-7022, 24 hours before site grading begins.
- 17. Prior to any excavation, contractor to notify "CALL BEFORE YOU DIG," 1-800-922-4455.
- 18. All existing utilities are from best available information, contractor to verify all locations, dimensions, and
- elevations prior to construction. Notify Engineer of any discrepancies. 19. No floor drains are proposed. Floor drains are not allowed without obtaining Connecticut DEEP permits.
- 20. Building permit required for construction of retaining walls over 3-ft tall. Design of retaining walls shall be
- provided by structural/geotechnical engineer prior to construction of walls. 21. Any salt storage will be required to be stored outside the FEMA Flood Plan Storage Area.

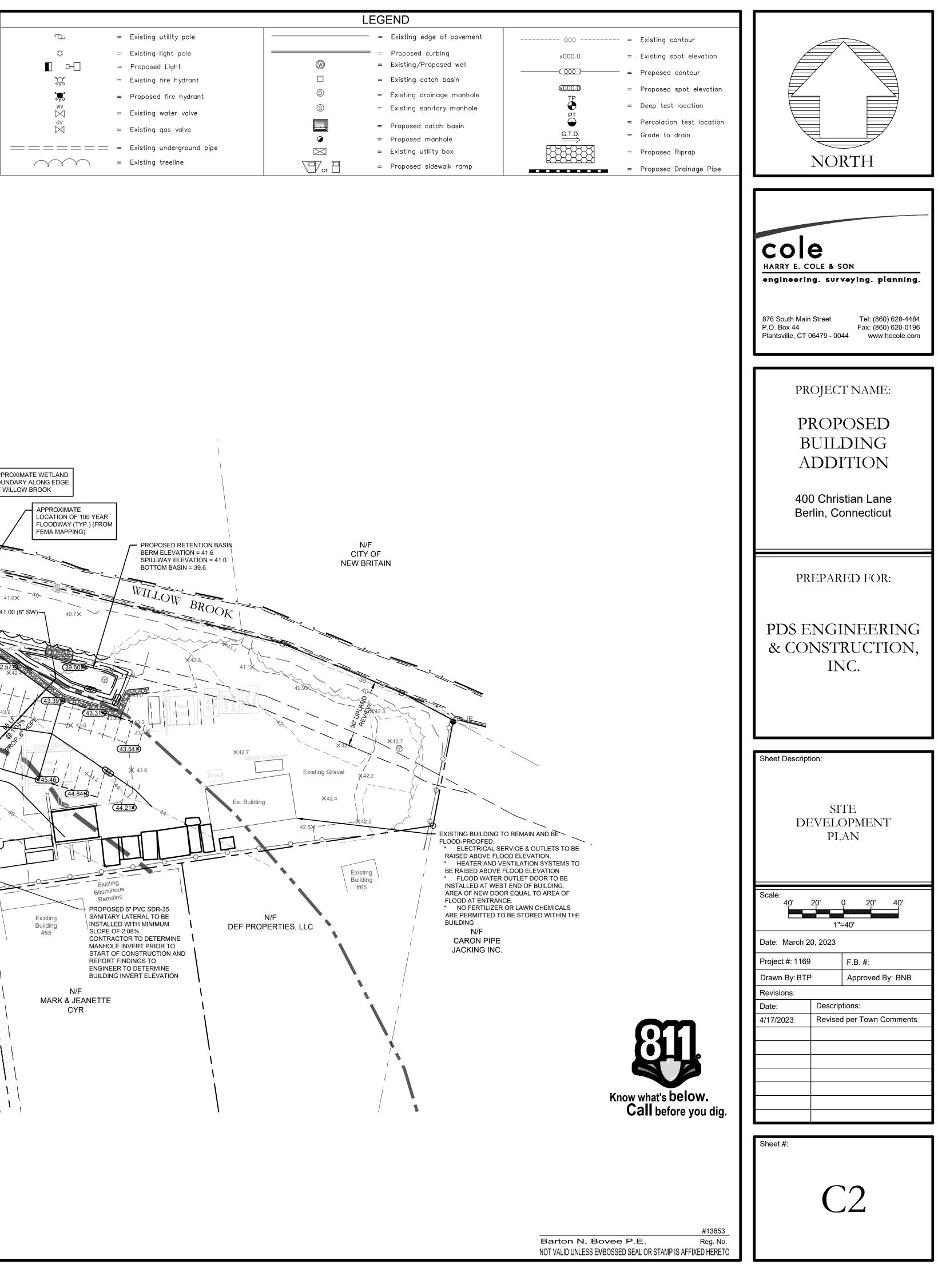
ZONING INFORMATION			
ITEM	REQUIRED	EXISTING	PROPOSED
CURRENT ZONE	GI-2	GI-2	GI-2
USE	Industrial	Industrial	Industrial
LOT AREA	0.5 acres	4.04 acres	4.04 acres
LOT WIDTH	100 Ft.	253.22 Ft.	253.22 Ft.
FRONT YARD SETBACK	30 Ft.	27.4 Ft.*	27.4 Ft.
SIDE YARD SETBACK	25 Ft.	14.8 Ft*	14.8 Ft. (Existing) 29.1 Ft. (Proposed Addition)
REAR YARD SETBACK	25 Ft.	454.6 Ft	± 72 Ft.
MAX. BUILDING HEIGHT	45 Ft	< 45 Ft	< 45 Ft
MAX. BUILDING COVERAGE	35%	18.3%	22.4%
MAX. IMPERVIOUS COVERAGE	80%	< 80%	

PARKING IN	NFOR
ITEM	RE
EXISTING BUILDING: PROFESSIONAL OFFICE SPACE = 10,000 S.F. (1 SPACE / 250 SQFT GROSS OFFICE SPACE)	
EXISTING BUILDING: MANUFACTURING SPACE = 10,000 S.F. (1 SPACE / 500 SQFT GROSS OFFICE SPACE)	
EXISTING BUILDING: WAREHOUSING AND STORAGE SPACE = 12,200 S.F. (1 SPACE / 1,000 SQFT GROSS OFFICE SPACE)	
PROPOSED BUILDING: WAREHOUSING AND STORAGE SPACE = 7,250 S.F. (1 SPACE / 1,000 SQFT GROSS OFFICE SPACE)	
HANDICAP PARKING	
TOTAL # OF SPACES	79.5 (IN
The proposed plan shows total of 80 parking spaces t	for the prop









SOIL EROSION AND SEDIMENT CONTROL NARRATIVE:

PROJECT INFORMATION

- Project Description The project site consist of one 4.04 acre parcel on 400 Christian Lane in Berlin, CT. Area Proposed Disturbance Due to Construction Activities - 1.39± Acres Total.
- Estimated Start of Construction Summer 2023.
- Estimated Construction Completion Date Summer 2024.

SEQUENCE OF CONSTRUCTION

- The tentative sequence of construction events are as follows and activities noted by a "(Capital Letter)" may occur concurrently. Conduct a pre-construction meeting with the OWNER, Contractor, Consultant Team, and Local, County and State agencies having jurisdiction
- over the project.
- Field stakeout the limits of all activities and at a minimum idetify the construction limit lines along environmentally sensitive and tree protection areas. Silt fencing may be used where it coincides with this line, but only as approved by the OWNER. (A)
- Install silt fence along sides of contiguous to wetlands, watercourses and property owned by others affected by the work. Refer to the Soil Erosion and Sedimentation Control Plan for locations. (A)
- Construct detention basins and stabilize immediatly following construction. All slopes greater than 3:1 to be matted or hydro seeded with tackifier Prior to and after each rain storm monitor the sedimentation and erosion control structures, which may include riprap channels, sediment basins, plunge pools, etc. Routinely remove sediment during construction when controls exceed one half (1/2) their capacity, sediment shall be disposed of in an environmentally acceptable manner at an approved location. (A)
- Clear vegetation within project limits, except trees designated to remain or in question, as shown on the plans. The decision of how questionable trees are to be treated shall rest with the OWNER and coordinated through the local agency having jurisdiction as construction progresses. All trees and shrubs less than 6" in diameter, and not to remain, shall be chipped and stored on site for mulch. (A)
- Remove stumps and dispose of at a bulky waste site approved by the ENGINEER and local official having jurisdiction. Disposal of stumps within burial pits on-site shall be prohibited. (B). Construct all temporary sedimentation and erosion control structures, including but not limited to: silt fence, stone check dams and water breaks.
- All structures and their locations shall be approved by the ENGINEER or the Inland Wetlands Enforcement Officer. Prior to the next phase of construction. (B)
- Install drainage outfall pipe and temporary sediment basin along with temporary drainage diversions to sediment basin.

Strip topsoil and subsoil materials as required and stockpile them at locations that will not adversely impact any down gradient wetlands. Stockpiles may be relocated to meet job conditions but are subject to the ENGINEER'S approval. Provide temporary erosion controls on the downside slopes of all stockpiles. (B)

- Bring proposed site entrance surface areas to rough subgrade.
- Conduct all rough cuts and fills for proposed houses, roads and utility installations. Making sure that all fill material is free of brush, rubbish, large boulders, logs, stumps and other objectionable materials. (C)
- If blasting is required for any cuts, all proposed work is to be coordinated with all local officials having jurisdiction. The contractor is required to 13. secure all permits for blasting operations in accordance with local and state regulations and conduct a pre-blast survey of surrounding properties. Rock spoil is to be disposed of in an appropriate manner as the site development plan may show or is locally permitted. (C)
- Provide temporary seeding measures on all exposed soil which were damaged due to construction activities, are outside of construction traffic zones, and are not to be permanently restored or for a period in excess of thirty (30) days. Seeding and seedbed preparation are as specified herein or as indicated on the landscape plan. (C)
- Excavate for and install storm drainage systems. Install haybale ring sediment barriers at all catch basins locations. (C)
- Excavate for and install utilities. (C) 16. Bring proposed proposed roadway areas to pavement subgrade with processed stone and install binder course and curbing. Refer to details. (D) 17.
- Construct all driveway entrance improvements as indicated on plans. (E)
- Exercise final long-term stabilization. (E)
- Complete final paving with top course. (E) 20.

Clean and remove all silt from within drainage structures and dispose of materials in an environmentally acceptable manner. (F)

- Remove temporary measures once permanent measures have matured as approved by the Municipality's enforcement officer. (F) Conduct final inspection with Municipality to identify deficiencies and establish punch list based on approved plans; complete to the satisfaction of 23.
- the Municipality.
- 24. Construction Staging:

a. Stage # 1 - Rough grade site, stabilize steep slopes. Construct temporary sedimentation control measures, detention and retention basins.

- b. Stage #2 Install subsurface storm water systems, install underground utilities and first coat pavement.
- c. Stage #3 Finish grade site and loam and seed all disturbed areas. 25. All dewatering to be directed into filter bags.

RESPONSIBILITY

- The responsibility for implementing and maintaining the Soil Erosion and Sedimentation Control Plan rests with the OWNER OF RECORD where any development of the parcel gives cause to erosion and sedimentation. It is also to be said that the OWNER OF RECORD shall be held responsible for informing all concerned regarding responsibility of the SE&SC plan and seeing that the plan becomes a part of the deed in the event the title of the property is transferred. The costs of all drainage erosion and sedimentation control measures will therefore rest with the OWNER OF RECORD
- Contact Person: PDS Engineering & Construction, Inc. Contact Phone: (860) 242-8586

GENERAL NOTES:

- Additional notes and details are located on Sheet ES2.
- At all times during construction, the Developer/Contractor shall be responsible for preventing and controlling on-site erosion including keeping the property sufficiently watered so as to minimize wind blown sediment. The Developer/Contractor shall also be responsible for installing and maintaining all erosion control facilities shown
- All soils exposed during land disturbing activity (stripping, grading, utility installations, stockpiling, filling, etc.) shall be kept in a roughened condition by ripping or disking along land contours until mulch, vegetation, or other permanent erosion control BMPs are installed. No soils in areas outside project street rights-of-way and future pavement shall remain exposed by land disturbing activity for more than thirty (30) days before required temporary or permanent erosion control (e.g. watering, seed/mulch, landscaping, etc.) is installed, unless otherwise approved by the Town Engineer.
- All inlets shall be cleaned prior to occupancy.
- All slopes greater than 3:1 shall be protected with Erosion Control Blankets (S150 by North American Green or approved equal) or Hydroseeded with Tackifier
- All erosion control measures shall remain intact and operational until the site has been stabilized and vegetation is thoroughly established. This may occur after completion of construction, therefore it is critical for the Developer, Contractor and\or Owner to understand the erosion control responsibilities and maintain the erosion control measures.
- To minimize erosion of the sandy soils, vegetation shall be established immediately following completion of grading within each area. Vegetation may consist of temporary seeding or final loam and seed.
- If areas of work are not addressed by this plan or sediment and erosion issues arise in areas not covered by this plan, then the plan shall be augmented in the field. Contractor shall be responsible to insure no sediment or erosion problems encroach upon abutting property. This may require additional barriers, swales and bales.
- All erosion and sediment control measures shall conform to the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control manual.

STORMWATER MANAGEMENT MAINTENANCE **SCHEDULE**

BERLIN, CONNECTICUT

The following are the required maintenance and monitoring procedures.

<u>Riprap and Discharge Aprons</u> - Shall be cleared of all sediment deposits and invasive plant species and are to be inspected for rip-rap damage and deterioration. These procedures to be conducted yearly between May I and before September 15

Outlet Control Structure - Shall be cleaned of all sediment, trash and debris and is to be inspected for structural integrity. hese procedures to be conducted yearly between May 1 and September 15. Structure shall be inspected two times a year and after significant rainfall events. Additional maintenance, beyond scheduled maintenance, may be required based upon inspections. Repairs shall be executed immediately.

Emergency Spillway - Shall be cleared of all sediment deposits and invasive plant species and are to be inspected for riprap damage and deterioration. These procedures to be conducted yearly between May 1 and September 15. Repairs shall be executed immediately.

Catch Basins - All basin rim areas and sumps shall be cleaned of all sediment, trash and debris. These procedures to be conducted yearly anytime after May I and before September 15.

Swales - all swales be cleared of all sediment deposits, invasive plant species and debris. Any erosion shall be repaired. These procedures to be conducted annually. Swales shall be inspected two times a year and after significant rainfall events. Additional maintenance, beyond schedule maintenance, may be required based upon inspections.

Water Quality Basin - Basin shall be cleared of all sediment deposits, invasive plant species and debris. These procedures to be conducted yearly between May 1 and September 15. Basin shall be inspected two times a year and after significant rainfall events. Additional maintenance, beyond scheduled maintenance, may be required based upon inspections

Slopes - Slope erosion control blankets and vegetation shall be inspected twice a year and after significant rainfall events. Additional maintenance, beyond schedule maintenance, may be required based upon inspections. Any hills or channeling shall be repaired immediately

Parking Lot Sweeping - Use mechanical sweeping on paved areas where dust and fine materials accumulate. These procedures to be conducted yearly anytime after May I and September 15. All sediment deposits, trash and debris shall be removed to a location off-site and disposed of in an environmentally acceptable manner.

-16-

The following are the required maintenance and monitoring procedures

Swales - All swales shall be mowed and be cleared of all sediment deposits, invasive plant species and debris. These procedures shall be conducted monthly. Swales shall be inspected weekly and after significant rainfall events. Additional maintenance, beyond scheduled maintenance, may be required based upon inspections.

Catch Basins - All basin rim areas and sumps shall be cleaned of all sediment, trash and debris. These procedures shall be conducted monthly. Basins shall be inspected weekly and after significant rainfall events. Additional maintenance, beyond scheduled maintenance, may be required based upon inspections

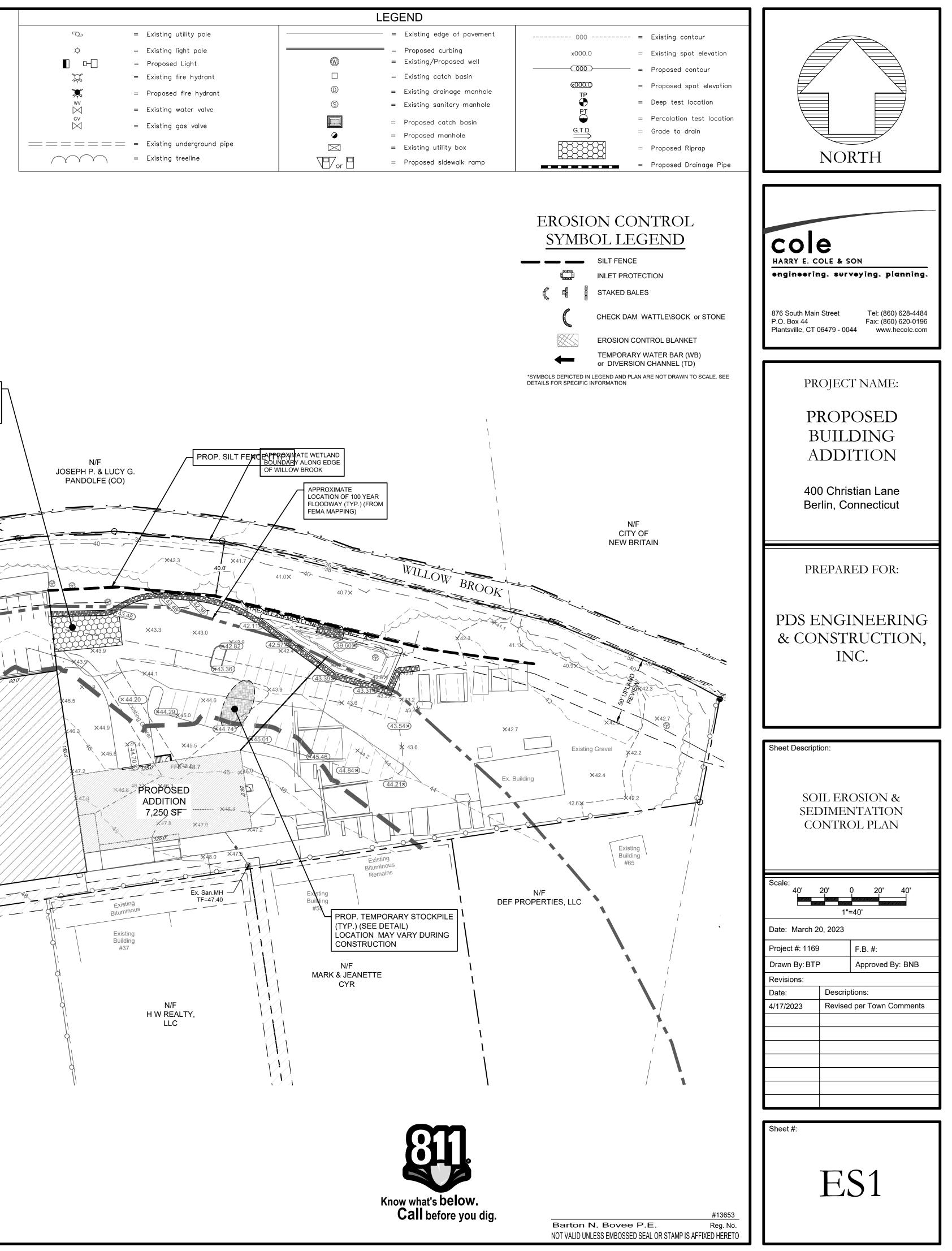
Slopes - Stablized slopes are essential to preventing sediment movement. Any channels of concentrated flow, such as hills, shall be fixed immediately. Additional control measures, such as bales, riprap, sediment fence and erosion fabric or hydroseed with tackifier may be required. Slopes shall be inspected weekly and after significant rainfall events.

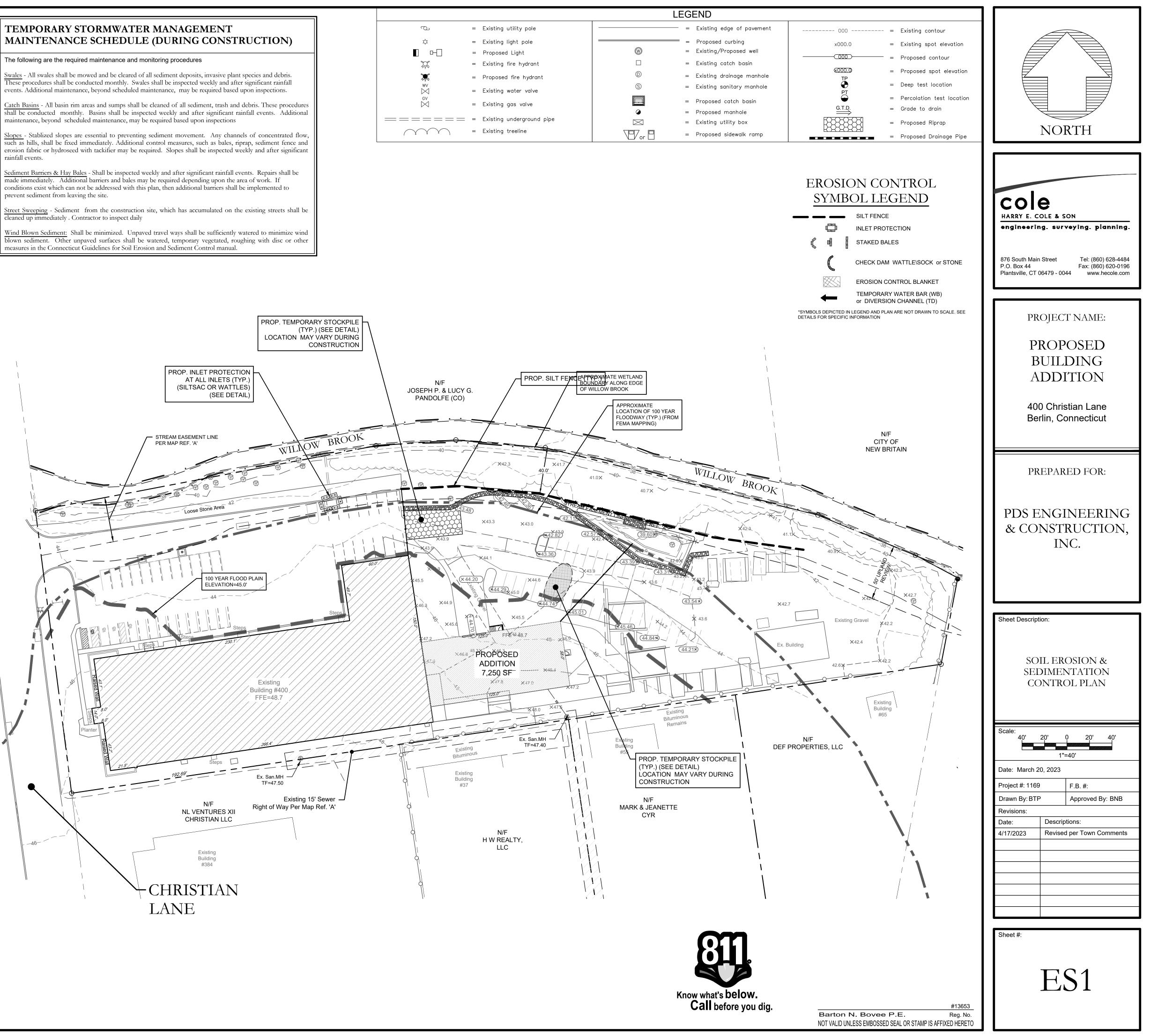
Sediment Barriers & Hay Bales - Shall be inspected weekly and after significant rainfall events. Repairs shall be made immediately. Additional barriers and bales may be required depending upon the area of work. If conditions exist which can not be addressed with this plan, then additional barriers shall be implemented to prevent sediment from leaving the site.

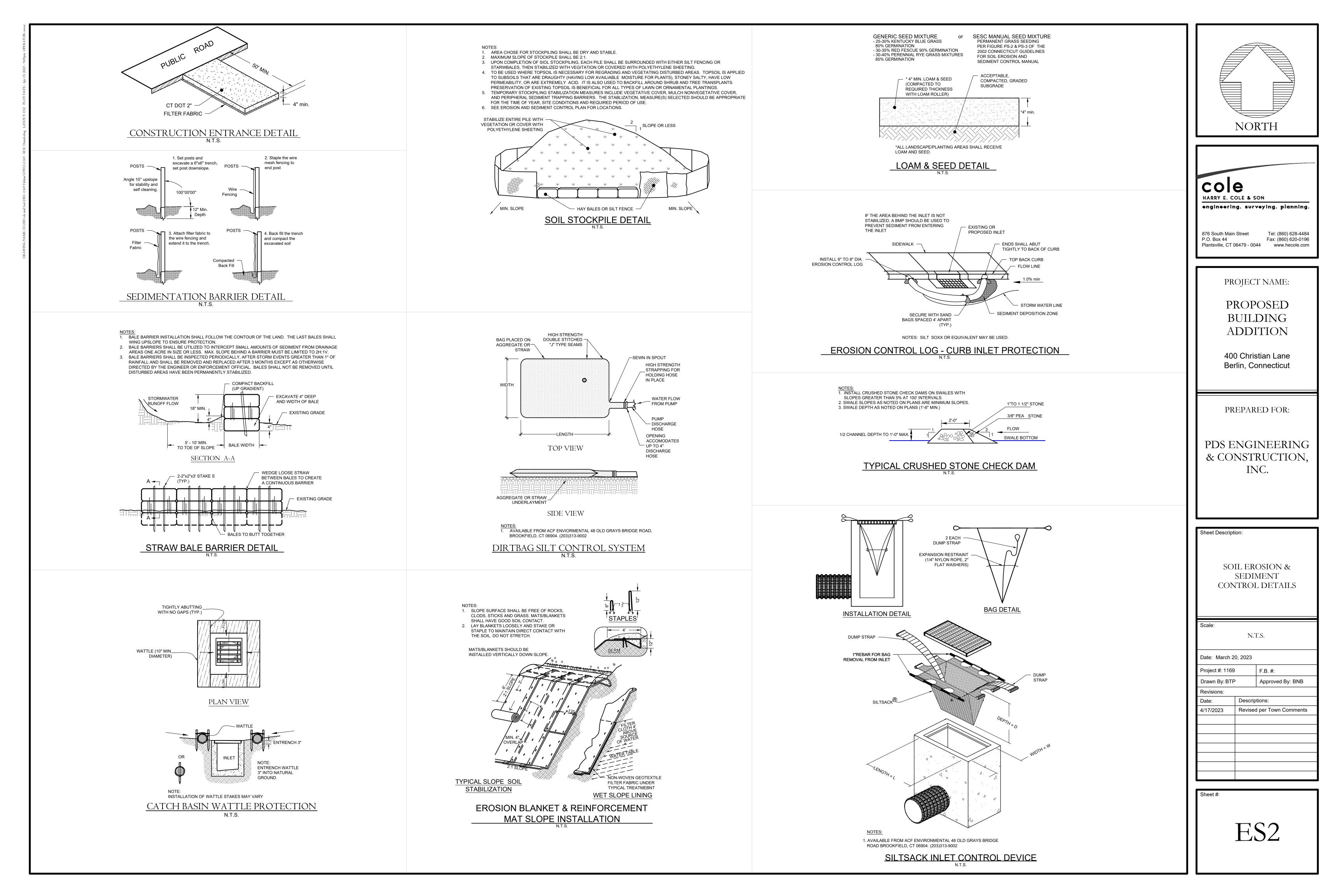
Street Sweeping - Sediment from the construction site, which has accumulated on the existing streets shall be cleaned up immediately. Contractor to inspect daily

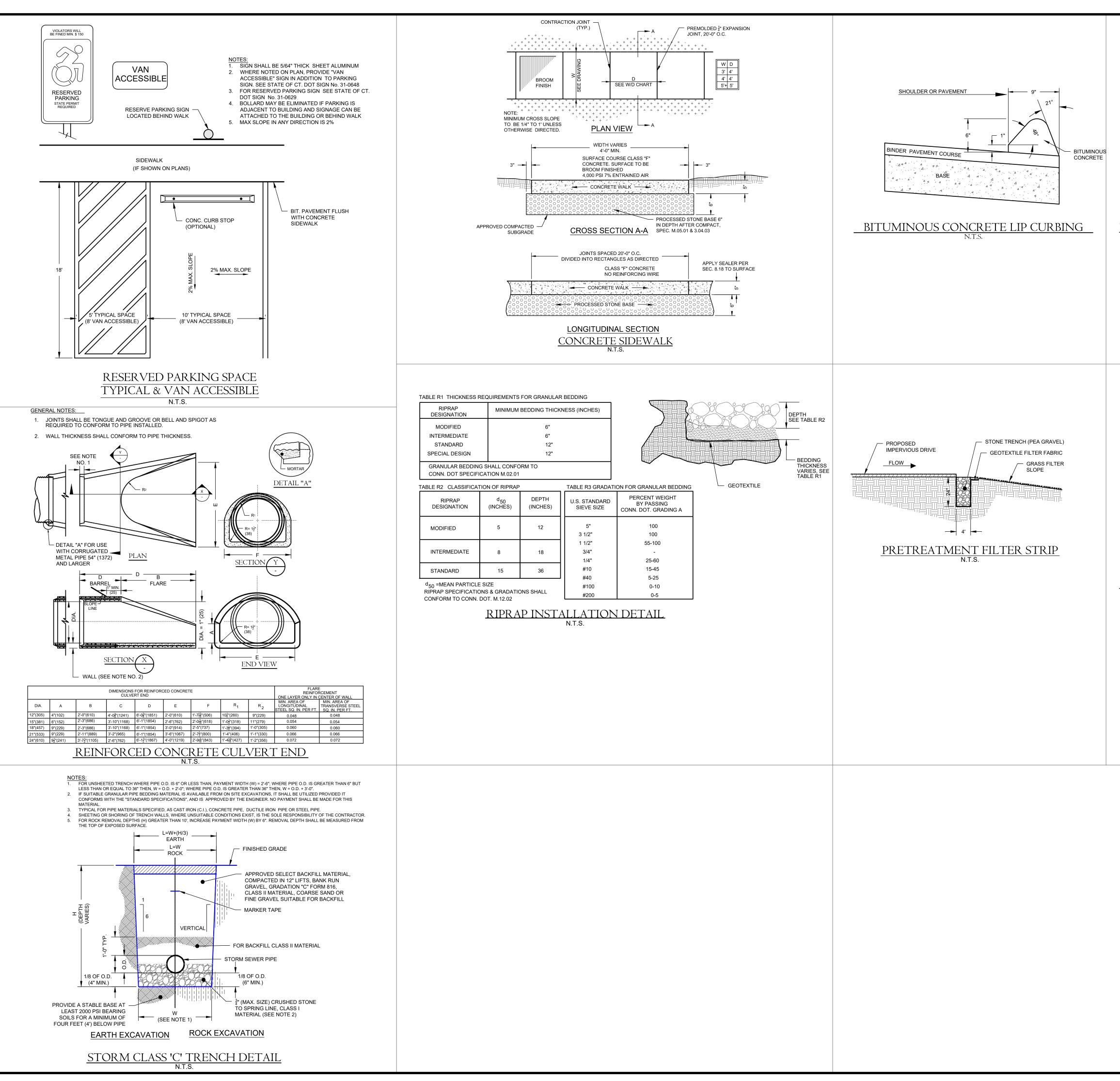
Wind Blown Sediment: Shall be minimized. Unpaved travel ways shall be sufficiently watered to minimize wind blown sediment. Other unpaved surfaces shall be watered, temporary vegetated, roughing with disc or other measures in the Connecticut Guidelines for Soil Erosion and Sediment Control manual.











NOTES: 1. STANDARD BITUMINOUS CONCRETE SECTION. * REFER TO SHEET #C1 - SITE LAYOUT PLAN FOR PAVEMENT CONFIGURATION SEE NOTE 4" 4" 4" 4" 4" 4" 4" 4" 4" 4"	
TYPICAL BITUMINOUS CONCRETE PAVEMENT DETAIL N.T.S.	CODE HARRY E. COLE & SON engineering. surveying. planning. 876 South Main Street P.O. Box 44 Plantsville, CT 06479 - 0044 Tel: (860) 628-4484 Fax: (860) 620-0196 www.hecole.com
	PROJECT NAME: PROPOSED BUILDING ADDITION 400 Christian Lane Berlin, Connecticut
************************************	PREPARED FOR: PDS ENGINEERING & CONSTRUCTION, INC.
	Sheet Description: DETAILS
	Scale: N.T.S. Date: March 20, 2023 Project #: 1169 F.B. #: Drawn By: BTP Approved By: BNB Revisions: Date: Descriptions: 3/23/2023 Added Filter Detail and Gravel Detail 4/17/2023 Revised per Town Comments
	Sheet #: D1