



TOWN OF PUTNAM

TOWN HALL
200 SCHOOL STREET
PUTNAM, CONNECTICUT 06260

Inland Wetland Commission Meeting
Hybrid Meeting
May 10, 2023 7:00 P.M.
Municipal Complex Room 201 Second Floor

Agenda:

1. Call to Order & Roll Call:
2. Seating of alternate:
3. Review minutes of the April 12, 2023 meeting. VOTE REQUIRED
4. Correspondence:
5. Public Participation:
6. Unfinished Business: - (Review/Discussion/Action)

Application: 2022-12 Khaphanh & Sukpase Phongsa
601, 603, & 604 School St, Proposed Parking Improvements on three properties,
Wetlands Remediation

Application: 2023-03 Allan & Kathleen Rawson
19 Brookside Landing, Single Family Residential Development

7. New Business: - (Review/Discussion/Action)

Application: 2023-04 JSC Management Group
51 Providence Pike, Tree cutting along the southern bank of Little Dam Tavern Brook.

8. Comments By Commissioners:
9. Agent Report
10. Adjournment.

Join Zoom Meeting

<https://us06web.zoom.us/j/89666140558?pwd=RGhQcWhiTkZnVm9CaE5xTldoQUM2dz09>

Meeting ID: 896 6614 0558
Passcode: s8biPX

By Phone +1 929 205 6099 US (New York)
Meeting ID: 896 6614 0558
Phone Passcode: 922633
Find your local number: <https://us06web.zoom.us/j/kdEeh74MCK>



TOWN OF PUTNAM

TOWN HALL
200 SCHOOL STREET
PUTNAM, CONNECTICUT 06260

Inland Wetland Commission Meeting Minutes
Hybrid Meeting
April 12, 2023 7:00 P.M.
Municipal Complex Room 201 Second Floor

Agenda:

Present: Adam Paquin Chairman, Walter Irwin, Cynthia Dunne, Theodore Altmeier, Mike Bogdanski
Alternate-Shannon O'Shea

Seating of alternate: N/A

Review minutes of the March 8, 2023, meeting.

Motion by Theodore Altmeier to accept the minutes, second by Walter Irwin. Adam Paquin, Walter Irwin, Cynthia Dunne, and Theodore Altmeier voted in favor. Mike Bogdanski abstained from voting as he was not present.

Correspondence Received:

CT Siting Council Public Hearing Notice, 56 River Road 4.0 megawatt-AC Solar Photovoltaic Electric Generating Facility

Bruce Fitzback reviewed the literature the Commission received.

Public Participation: None

Unfinished Business: None

New Business: - (Review/Discussion/Action)

Applicant: LSE Scorpius, LLC, Landowner: Robert J. Guillot,
112 Hawkins Rd. Re-Subdivision

Motion by Theodore Altmeier to approve, second by Walter Irwin. ALL WERE IN FAVOR

Comments By Commissioners:

Theodore Altmeier discussed a recent article he read regarding the submittal of applications that end up going to litigation and the applicant being held responsible for any expenses placed on the Town. He will gather more information for the Commission members for discussion at a later date.

Agent Report:

Bruce Fitzback updated the Commission on the following:

Burger King
Sabin Street Fields
Danco Road Bridge

Violation:

Cargill Chevrolet Route 44 and Route 21

Bruce Fitzback informed the Commission members that there were wetland violations that had taken place. He visited the site with Paul Archer, Agent for Cargill Chevrolet. It was stated by Paul Archer he was instructed to do whatever was needed to take place to correct the violations.

Theodore Altmeier reviewed the history of the property as it pertained to the wetlands and drainage issues throughout the years.

Accepting of Applications for May 10, 2022, meeting:

Application # 2022-16 Seth Khaphanh & Sukpase Phongsas-601,603, & 604 School Street – Parking Improvements, a new parking lot and a crosswalk.

Motion by Theodore Altmeier to accept, second by Walter Irwin. ALL WERE IN FAVOR.

Application # 2023-03 Allan Rawson- 19 Brookside Landing – Single Family Home.

Motion by Theodore Altmeier to accept, second by Walter Irwin. ALL WERE IN FAVOR

Motion by Theodore Altmeier to adjourn, second by Mike Bogdanski. ALL WERE IN FAVOR.

Join Zoom Meeting

<https://us06web.zoom.us/j/89063457899?pwd=K1FOZTFvTVVpbDJseE5ycVJzNCtLUT09>

Meeting ID: 890 6345 7899

Passcode: 6c8EFK

By Phone +1 929 205 6099 US (New York)

Meeting ID: 890 6345 7899

Passcode: 066860

Find your local number: <https://us06web.zoom.us/j/kewiTexCkT>



INLAND WETLAND COMMISSION

APPENDIX A

APPLICATION FOR PERMIT

This application is for the use of inland wetlands and water courses.

The meetings are held on the second Wednesday of every month at 7:00pm in the Town Hall. If an on-site inspection is canceled due to inclement weather, the applicant is asked to call the office at 963-6803 30 minutes before the scheduled inspection to see if or when the inspection will be held.

Name of Applicant	Khaphanh & Sukpase Phongsu
Applicant's Address	15 Wolf Den Drive, Pomfret, CT 06259
Phone #	860-575-5091
Owner of Land	Same
Owner's Address	
Location and description of proposed activity:	601, 603, & 604 School Street; Proposed parking improvements of 3 properties including new parking area, adjusting existing parking and adding a cross walk on School Street.

Activity & Purpose Code

Please **CHECK** one in each column that best describes the activity proposed.

<u>Code</u>	<u>Activity Type</u>	<u>Code</u>	<u>Activity Purpose</u>
☐ 1	Filling	☐ A	Residential Improvement by homeowner
☐ 2	Excavation	☐ B	New residential development - single family
☐ 3	Land Clearing	☐ C	New residential development - multi- family/condo
☐ 4	Stream Channel	☒ D	Commercial/Industrial Uses
☐ 5	Stream Stabilization	☐ E	Municipal Improvements
☐ 6	Stream Clearance	☐ F	Utility Company Improvements
☐ 7	Culverting	☐ G	Agriculture, Forestry or Conservation
☐ 8	Und. Grd. Util.	☐ H	Wetland Creation/Restoration
☐ 9	Roadway Construction	☐ I	Storm Water/Flood Control
☐ 10	Drainage Improvements	☐ J	Erosion/Sediment Control
☐ 11	Pond Dredge/Dam Construction	☐ K	Recreation/Boating/Navigation
☐ 12	Activity Buffer/Set Back Area	☐ L	Routine Maintenance
☐ 13	Other: Please describe:		

INLAND WETLAND COMMISSION

APPENDIX A *Continued*

Project Name (if applicable) Parking Improvements - 601, 603, & 604 School Street

Estimate of Linear Footage affecting Wetlands 0

Affected number of acres in which Wetlands are part of
the impacted area for Multi-Family, Condos and
Commercial Development NA

TO BE COMPLETED BY THE COMMISSION

Application Number _____ Date of Receipt _____

Application Approved (date) _____

Conditions of approval if applicable _____

Application Denied (date) _____

Reason(s) for Denial _____

Signature of Chairman or Secretary of Commission

Date

INLAND WETLAND COMMISSION

APPENDIX A *Continued*

Application Procedure

1. Applicant will have a map showing the property boundaries, any wetlands on the property, proposed buildings, septic area, drainage if applicable and the dimension between these areas in scale 1" - 200' or less
2. Applicant must provide an approximate estimate of the linear footage of the wetlands that are affected by said proposal. This is for multi-family, condominiums or commercial development. Contact with the Zoning Official may clarify the nature of your project
3. Applicant must provide an approximate estimate of the number of acres that are affected by said proposal dealing with multi-family, condominiums and commercial development in which wetlands are part of that impacted area within the watershed.
4. Applicant will supply a copy of the soil scientist report with the application to the Wetlands Commission to be reviewed at the meeting by the Commission.
5. Applicant will have the soil scientist number the wetland flags and record the numbers of the flags on the site plan according to their location in the field. The location on the site map must match the field location.
6. If the applicant's estimates are not accurate, payment of the correct amount must be made before the Wetlands final approval of the application.
7. And any other information deemed necessary by the Commission.

Fee Schedule

1.	Permitted and non-regulated	\$40.00
2.	One lot regulated	\$40.00
3.	Regulated Area	
	Two (2) - Ten (10) lots	\$100.00
	Ten (10) - Twenty (20) lots	\$200.00
	Over Twenty (20+) lots	\$300.00
4.	Multi-Family/Condominium Regulated area	
	Zero (0) to Five (5) Acres	\$50.00
	Per linear foot of wetlands additional	\$0.35
	Over Five (5) acres	\$100.00
	Per linear foot of wetlands additional	\$0.35
5.	Commercial	
	Zero (0) to Five (5) Acres	\$100.00
	Per linear foot of wetlands additional	\$0.50
	Over Five (5) acres	\$300.00
	Per linear foot of wetlands additional	\$0.50

All applications must be submitted one week prior to the regularly scheduled monthly meeting.

317 MAIN ST.
NORWICH, CT 06360



51-7335/2111



4/11/2023

**PAY TO THE
ORDER OF**

Town of Putnam

\$ **160.00

One Hundred Sixty and 00/100

DOLLARS

Town of Putnam

CLA ENGINEERS, INC.

MEMO

#7367



AUTHORIZED SIGNATURE

|| 026799 || 1: [REDACTED] 1: [REDACTED] ||

CLA ENGINEERS, INC.

26799

Town of Putnam

4/11/2023

160.00

Chelsea Groton Chec #7367

160.00

Parking Improvements

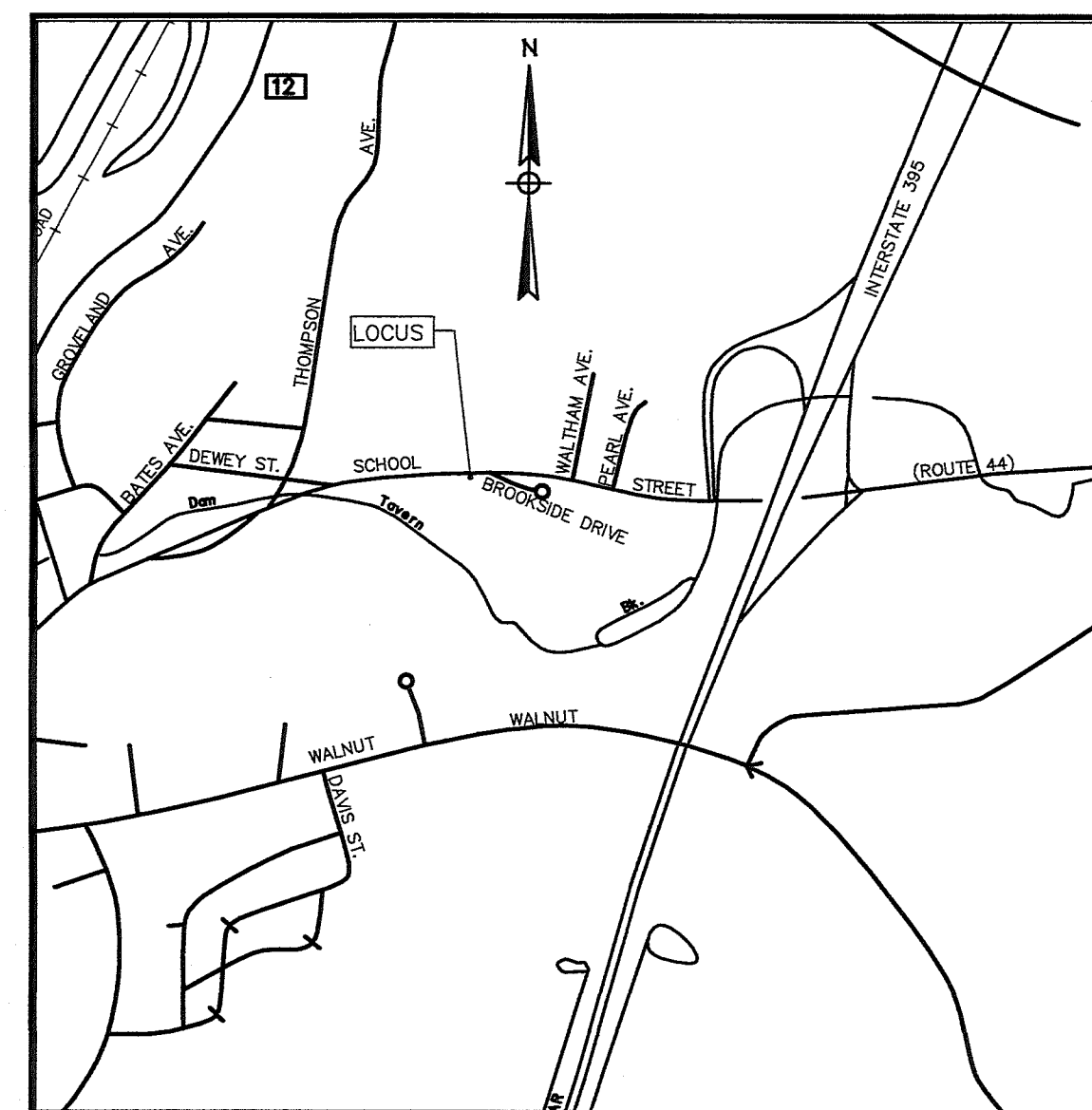
601, 603, & 604 School Street
Putnam, Connecticut
06260

Prepared for
KHAMPHANH & SUKPASEUTH PHONGSA

PROPERTY OWNER & APPLICANT

PROPERTY OWNER:
KHAMPHANH & SUKPASEUTH PHONGSA
15 Wolf Den Drive
Pomfret, CT. 06259

APPLICANT:
KHAMPHANH & SUKPASEUTH PHONGSA
15 Wolf Den Drive
Pomfret, CT. 06259



LOCATION MAP

Scale: 1"=1000'

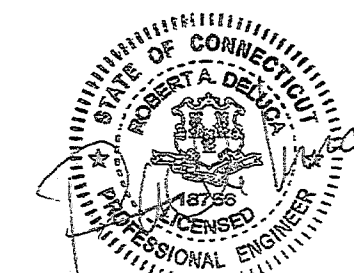
INDEX TO DRAWINGS

DRAWING NO.	DESCRIPTION OF DRAWINGS
1	Existing Conditions
2	Site Plan
3	Sight Line Plan #603 School St
4	Sight Line Plan #604 School St
5	Construction Details & Notes
6	Erosion Control Details & Notes

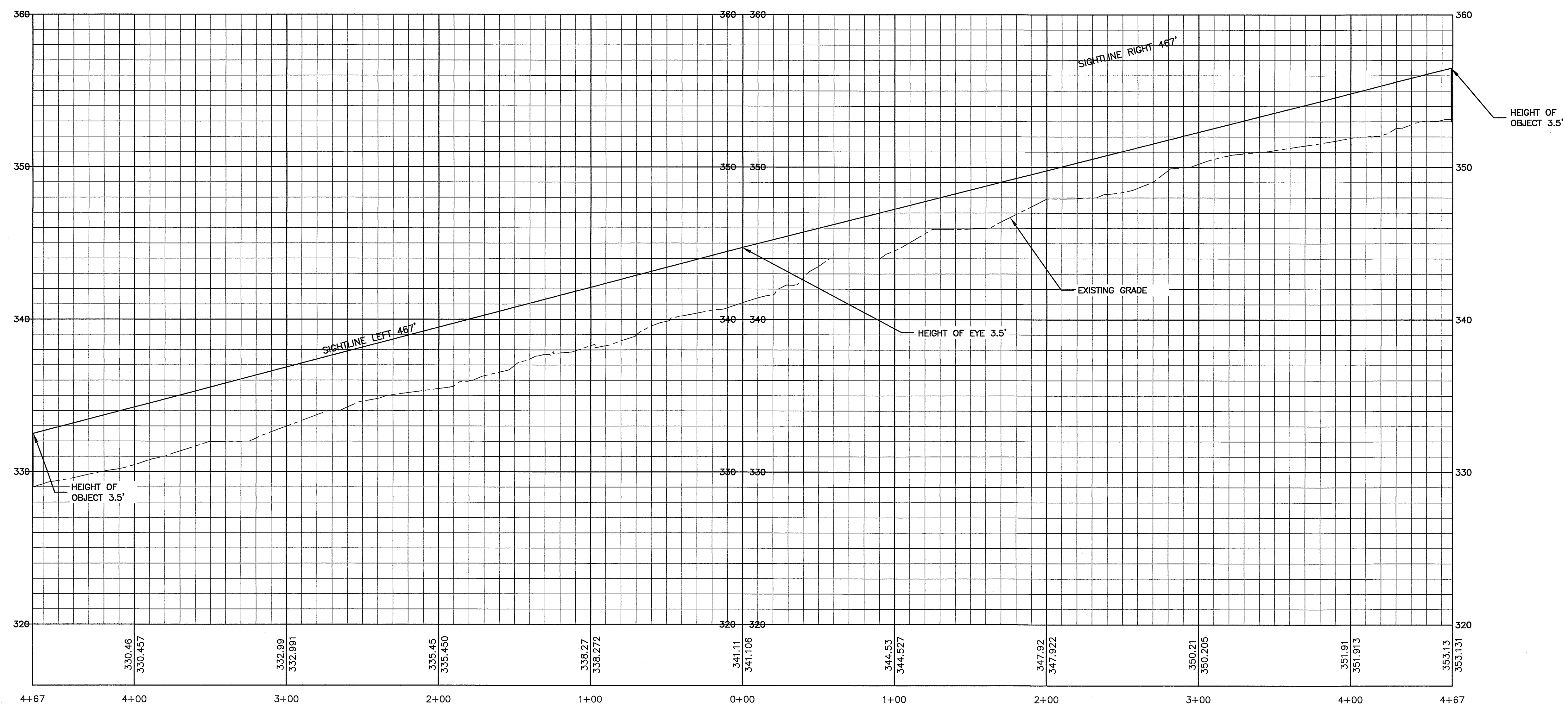
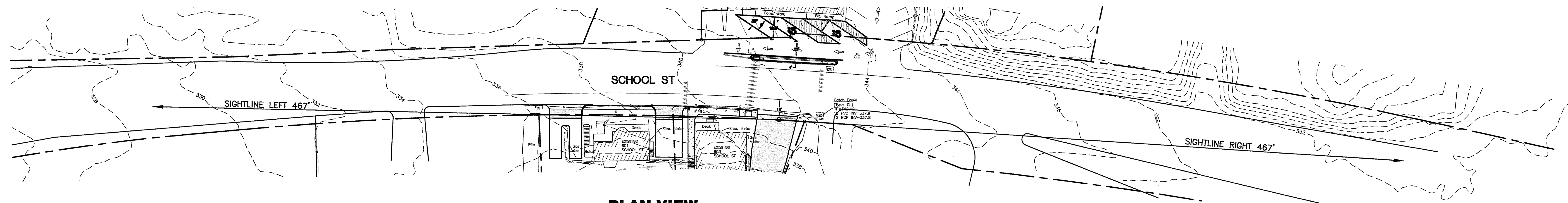
April 11, 2023

CLA Engineers, Inc.
CIVIL • STRUCTURAL • SURVEYING

317 Main Street Norwich, CT 06360
(860) 886-1966 Fax (860) 886-9165



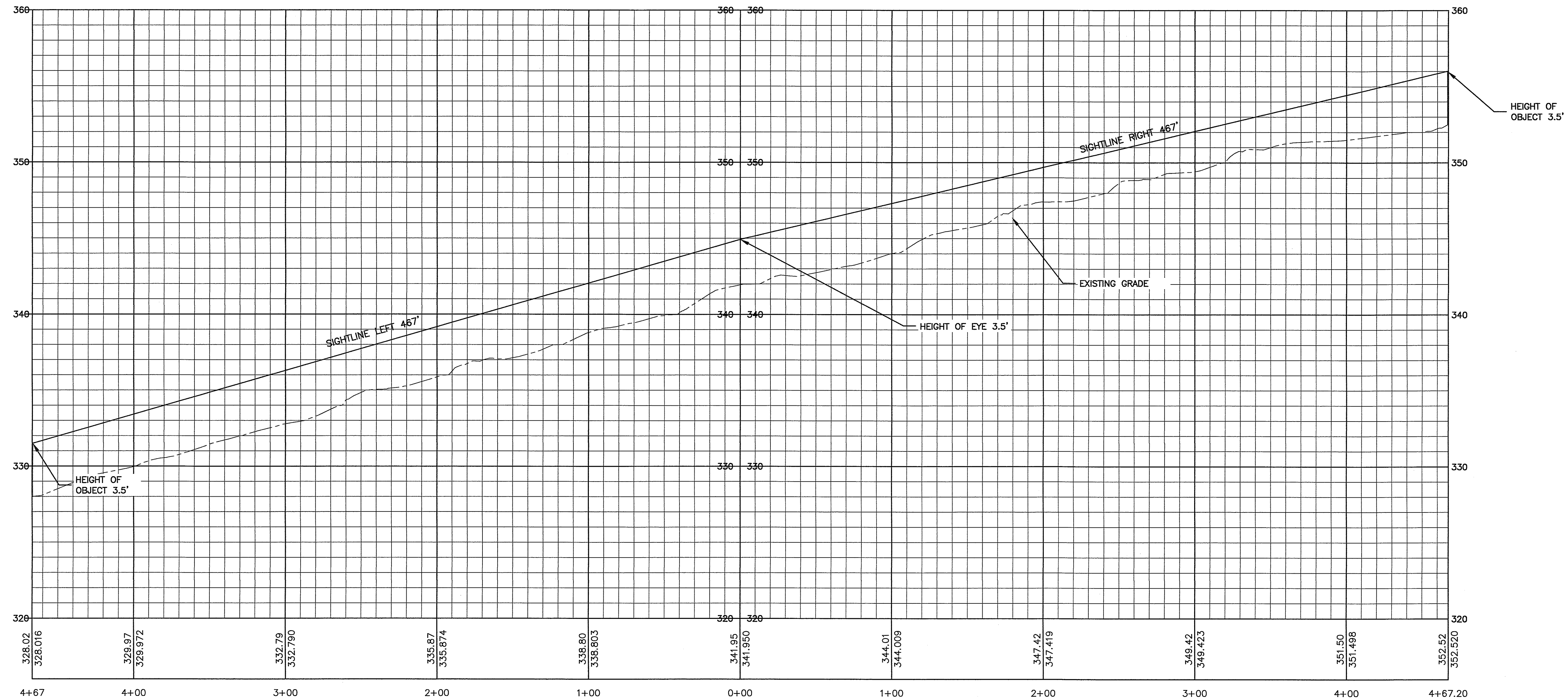
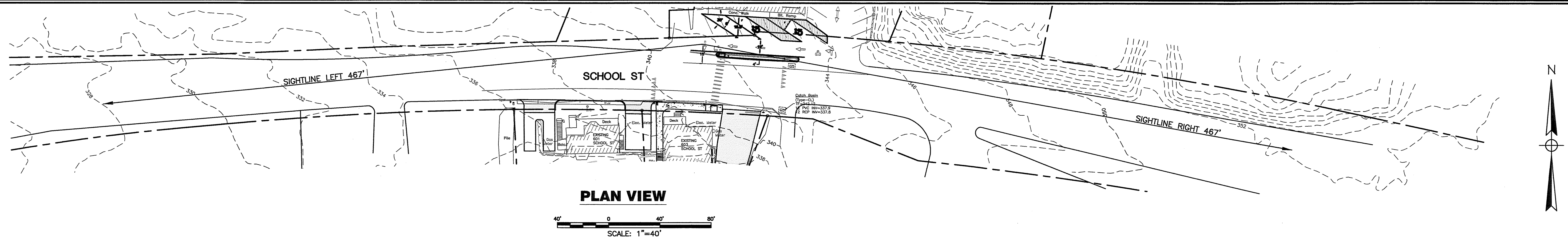




PLAN VIEW

Horiz. Scale: 1" = 40'
Vert. Scale: 1" = 4'

		CLA Engineers, Inc. CIVIL · STRUCTURAL · SURVEYING 317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165	
		Project No. CLA-7367 Proj. Engineer R.A.D. Date: 4/11/2023 Sheet No. 3	
No.	DATE	REVISION	601, 603, & 604 School Street Putnam CT Parking Improvements Sight Line Plan #603 School St



		CLA Engineers, Inc. CIVIL • STRUCTURAL • SURVEYING 317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165	
		Project No. CLA-7367 Proj. Engineer R.A.D. Date: 4/11/2023 Sheet No. 4	
No.	DATE	REVISION	
		601, 603, & 604 School Street Putnam CT	
		Parking Improvements	
		Sight Line Plan #604 School St	

GENERAL NOTES

- TOPOGRAPHY WAS ESTABLISHED BY CLA Engineers Inc..
- CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 811 AT LEAST 3 FULL WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- INFORMATION SHOWN ON THE DRAWINGS RELATING TO MATERIALS, CONDITIONS, AND/OR LOCATIONS OF EXISTING STRUCTURES AND UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING FIELD SURVEY, UTILITY COMPANY AND TOWN RECORD MAPS AND DRAWINGS, AND IS NOT GUARANTEED ACCURATE OR COMPLETE.
- THE CONTRACTOR SHALL EXCAVATE TEST PITS AS NEEDED OR AS DIRECTED BY THE OWNER TO VERIFY UTILITY INFORMATION.
- PASSAGE OF TRAFFIC ON ROADWAYS/DRIVEWAYS: A MINIMUM OF ONE LANE FOR TRAFFIC SHALL BE MAINTAINED THROUGH THE SITE AT ALL TIMES. THE CONTRACTOR SHALL PERFORM HIS OPERATIONS TO MINIMIZE DISRUPTIONS TO TRAFFIC WITHIN THE PROJECT SITE. A SINGLE LANE OF TRAFFIC MUST BE MAINTAINED AT ALL TIMES FOR RESIDENTS, BUSINESSES AND EMERGENCY VEHICLES.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF TRAFFIC. TRAFFIC CONTROL, TEMPORARY SIGNING OR BARRICADES AND LANE CLOSURES, CONTINUOUS ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
- CONSTRUCTION SIGNS MUST CONFORM TO THE SIGNING REQUIREMENTS OUTLINED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)". ALL SIGN FACES SHALL BE REFLECTORIZED.
- THE CONTRACTOR SHALL CONFINE HIS OPERATIONS AND ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN THE STREET LINES, EASEMENTS AND PROPERTY AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVEMENT, ROADWAY, SIDEWALKS, ETC., OUTSIDE OF THE WORK AREA AND SHALL REPAIR SUCH DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY AND PERMANENT SUPPORT OF ALL EXISTING UTILITY POLES IN AN ADJACENT TO THE CONSTRUCTION AREA AND SHALL COMPLY WITH ALL THE REQUIREMENTS AND SPECIAL DETAILS FOR THE SUPPORT OF UTILITIES REQUIRED BY UTILITY AGENCIES. ALL COSTS FOR TEMPORARILY SUPPORTING UTILITY POLES DURING CONSTRUCTION SHALL BE INCLUDED IN OTHER ITEMS.
- MATERIAL STOCKPILE AND STAGING AREAS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING STOCKPILE, MATERIAL STORAGE AND EQUIPMENT STORAGE AREAS. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL IDENTIFY THESE AREAS AND PROVIDE EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED.
- BLASTING SHALL NOT BE PERFORMED. BLASTING SHALL NOT BE PERMITTED WITHOUT PRIOR REVIEW AND APPROVAL FROM THE PLANNING & ZONING COMMISSION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTLE TO GRADE ALL FRAMES, GRATES, COVERS, VALVE BOXES, ACCESS COVERS, AND ALL OTHER ITEMS WHICH NORMALLY MUST HAVE A FIXED RELATION TO FINISHED GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SURVEY AND STAKEOUT AS THEY NEED. CONTROL POINT INFO AND CAD FILES OF THE SITE PLAN CAN BE PROVIDED PRIOR TO CONSTRUCTION.
- ALL WORK TO CONFORM TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 818, DATED JULY 2017, AS REVISED.

SUGGESTED CONSTRUCTION SEQUENCE

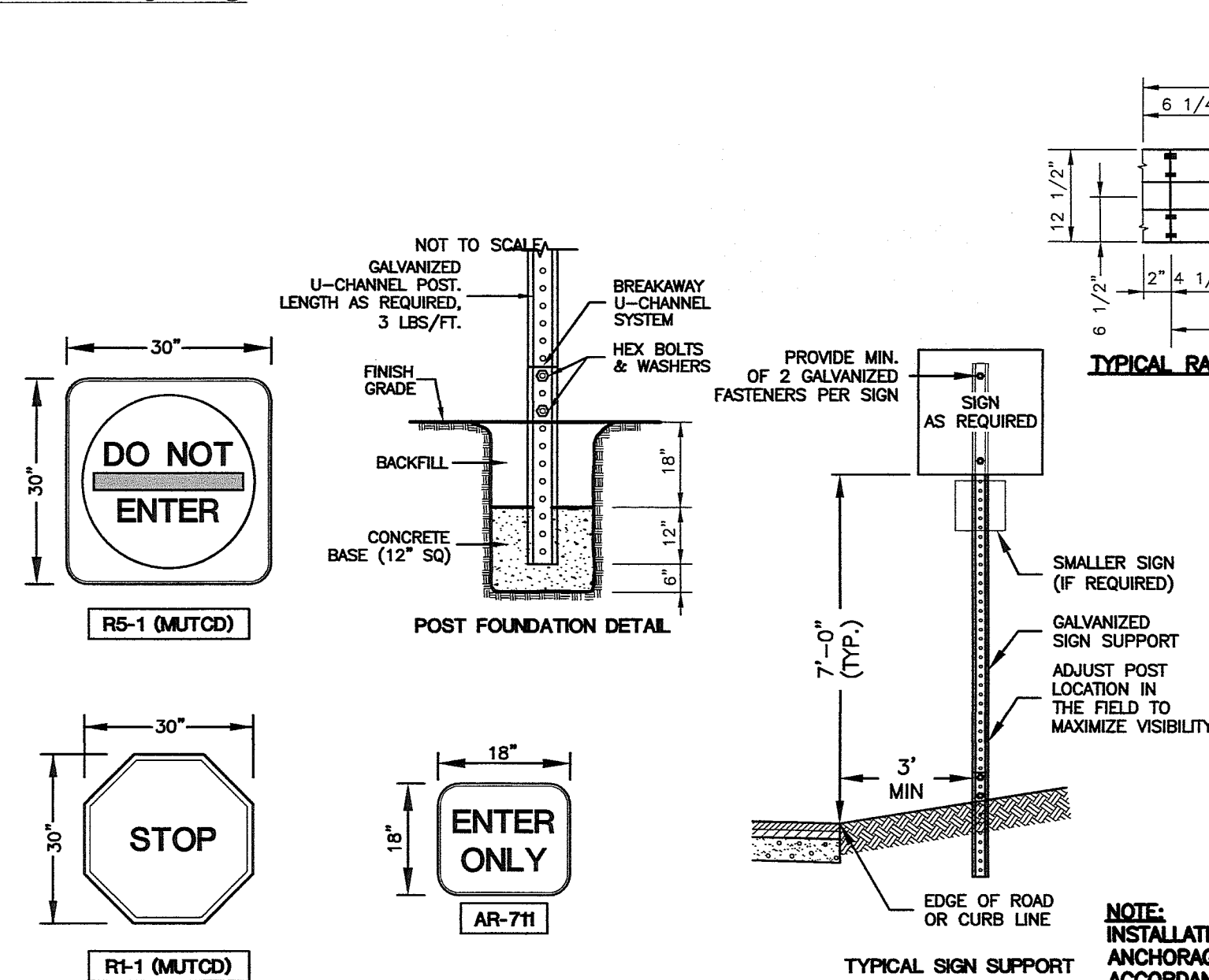
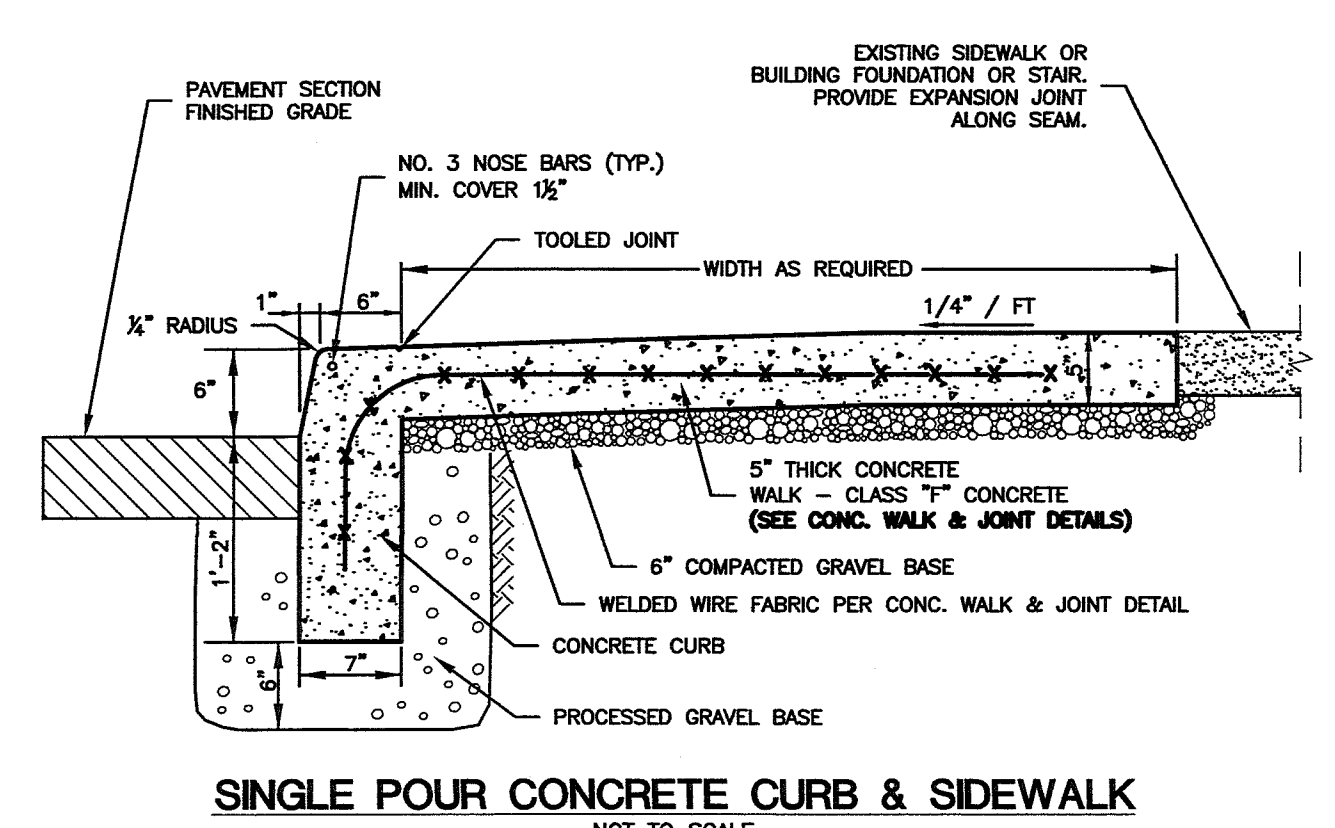
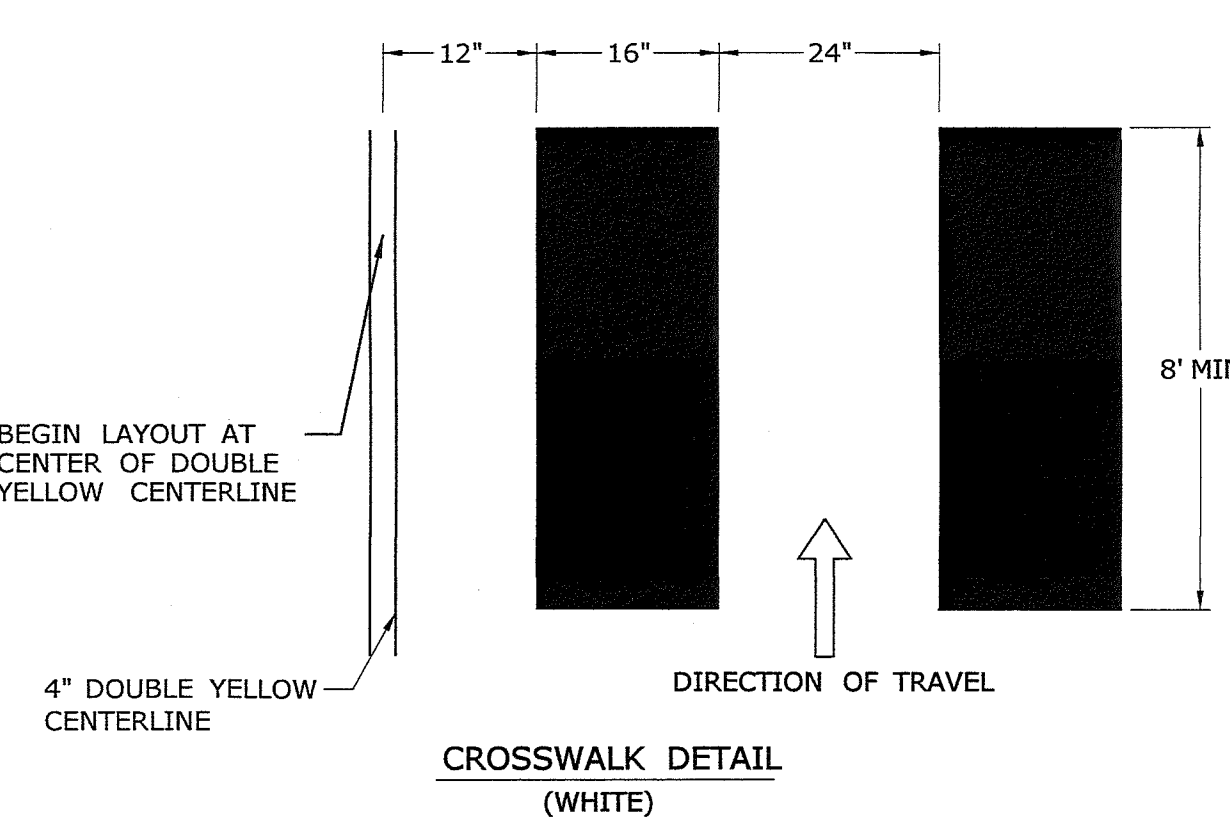
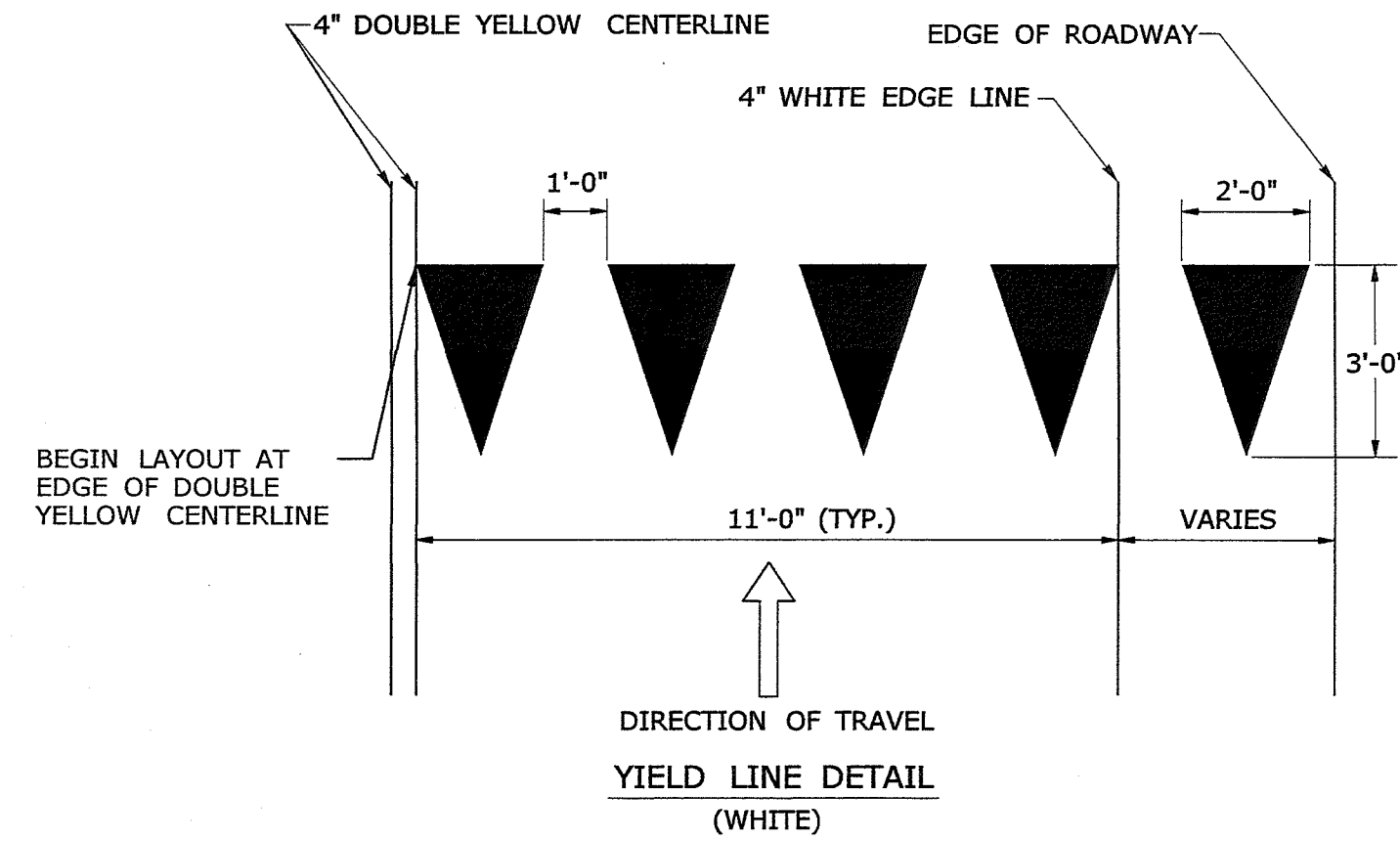
IT IS ANTICIPATED THAT THE CONSTRUCTION ACTIVITIES WILL BEGIN DURING SUMMER OF 2023 AND WILL BE COMPLETED IN APPROXIMATELY 3 MONTHS.

CONSTRUCTION SEQUENCE:

- PRIOR TO ANY SITE DISTURBANCE CONTACT "CALL BEFORE YOU DIG" AT 811 TO MARK EXISTING UTILITY LOCATIONS.
- INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE EROSION AND SEDIMENTATION CONTROL PLAN & NARRATIVE.
- ESTABLISH STOCKPILE AND STAGING AREAS AND PROVIDE ADDITIONAL EROSION & SEDIMENTATION CONTROL MEASURES AS NEEDED.
- CLEAR THE PROPOSED WORK AREA.
- REGRADE THE SITE TO ESTABLISH THE SITE SUBGRADE.
- INSTALL PROPOSED UNDERGROUND UTILITIES.
- FINISH GRADE THE SITE AND INSTALL NEW SIDEWALKS, ISLANDS AND PAVEMENT.
- INSTALL ALL LANDSCAPING. LOAM, SEED, FERTILIZE AND MULCH ALL DISTURBED AREAS.
- AFTER ALL DISTURBED AREAS ARE STABILIZED AND WITH PRIOR APPROVAL FROM TOWN STAFF, REMOVE EROSION AND SEDIMENTATION CONTROL MEASURES.
- REMOVE AND DISPOSE OF ANY ACCUMULATED DEBRIS OR SEDIMENT FROM THE NEW DRAINAGE SYSTEM.

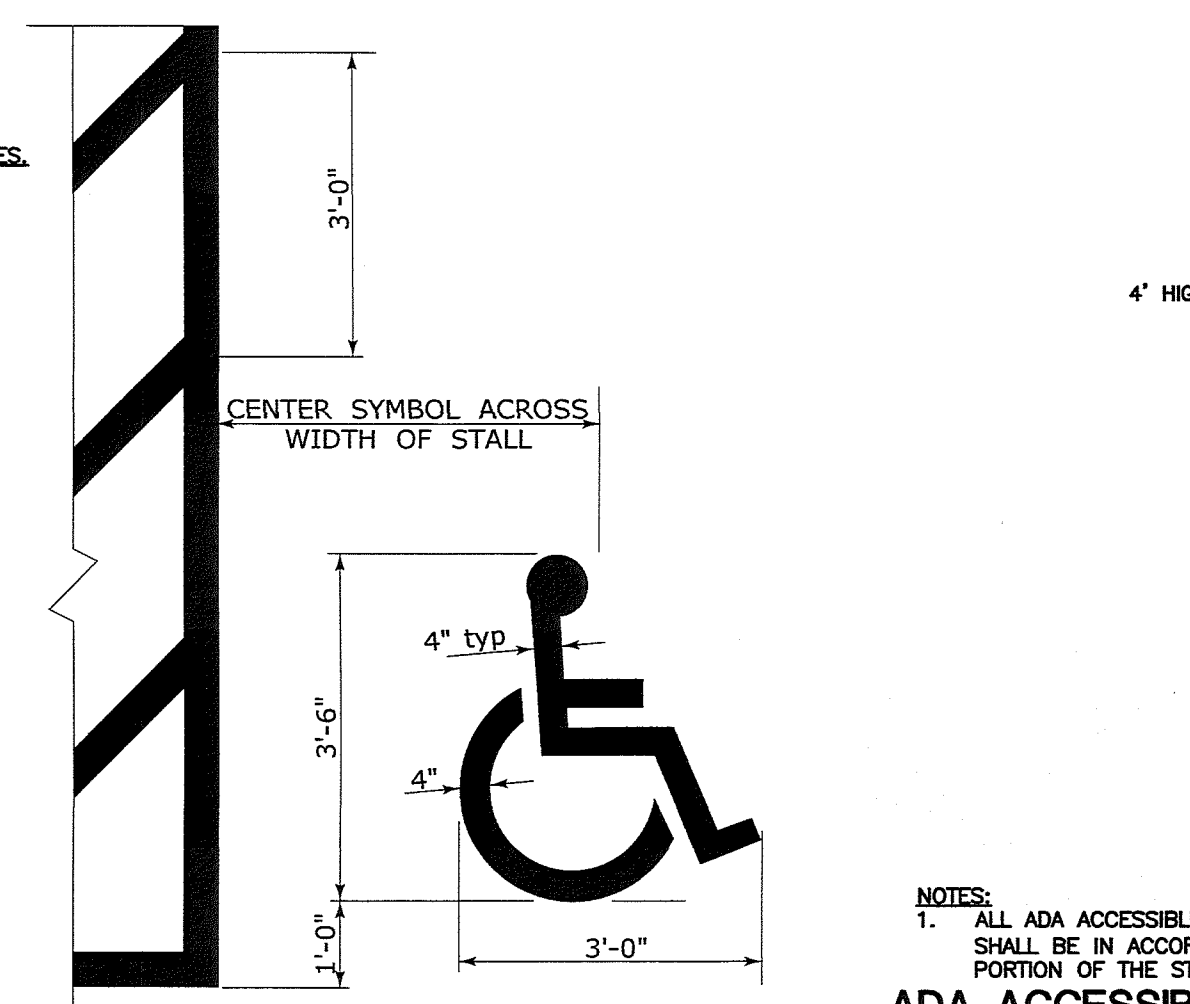


Know what's below.
Call 811 before you dig.



NOTE: INSTALLATION OF RAIL AND ANCHORAGES TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF CT. D.O.T.

METAL BEAM RAIL AND END ANCHORAGE

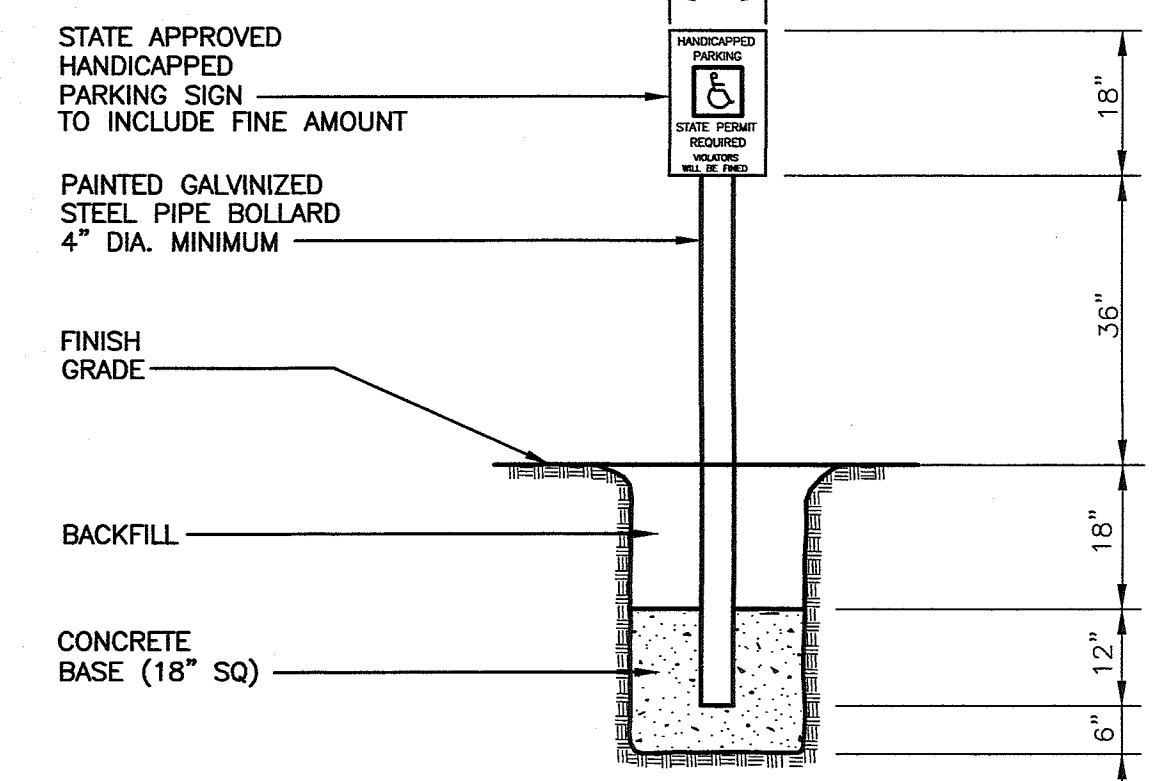
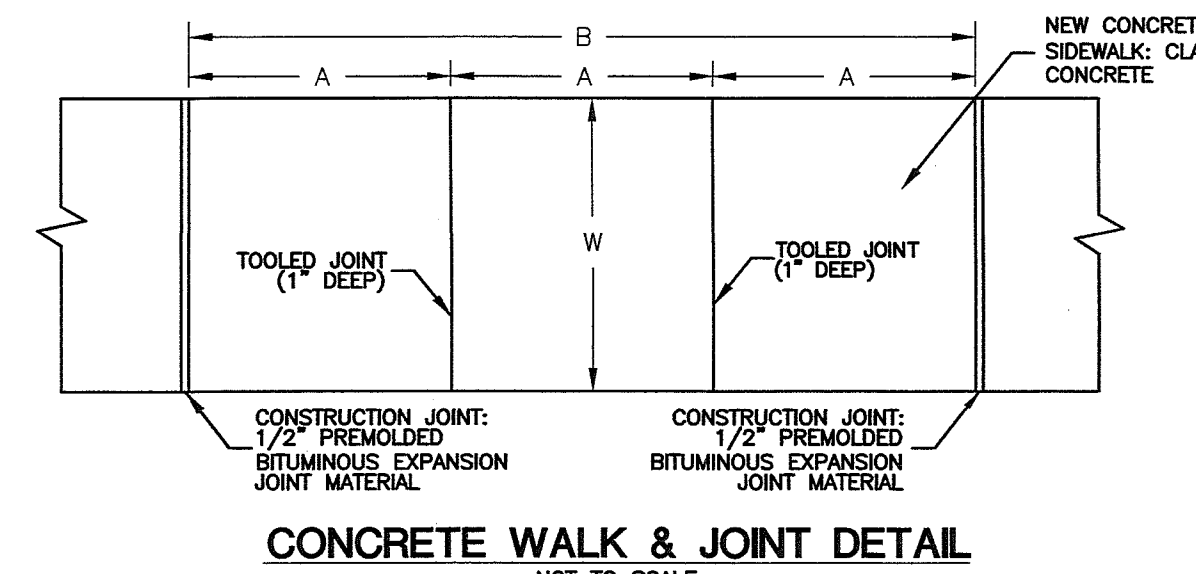
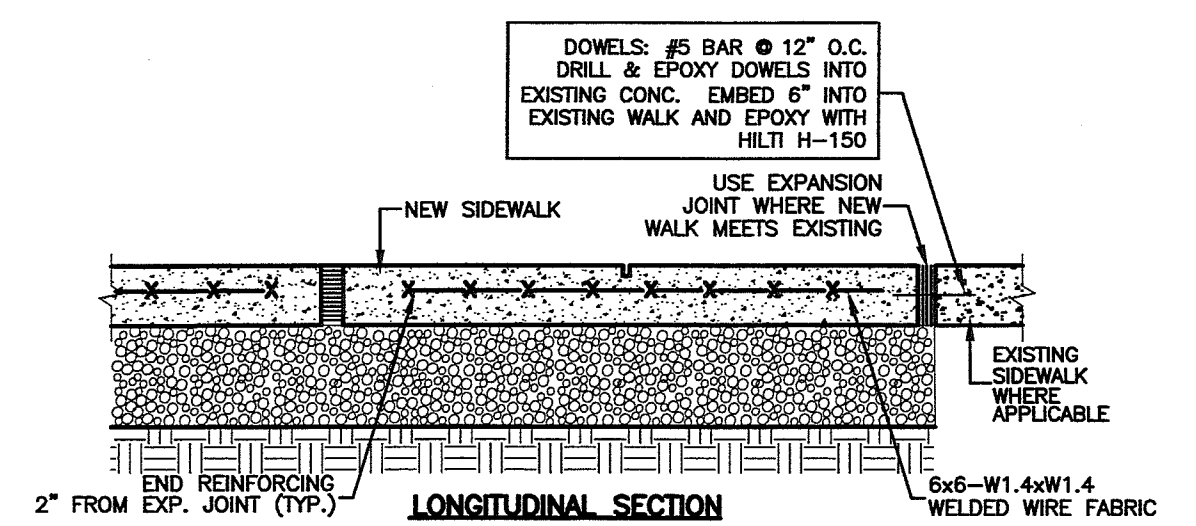
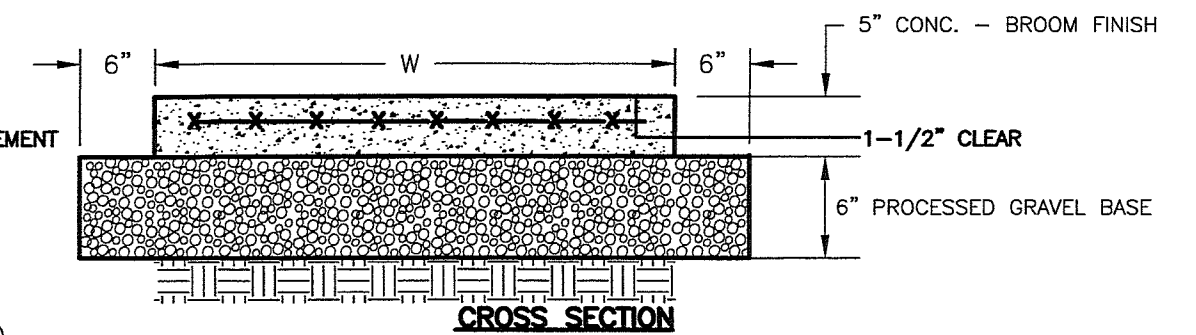


NOTES:
1. ALL ADA ACCESSIBLE SIGNING, DIMENSIONS AND SPACE MARKINGS SHALL BE IN ACCORDANCE WITH CGS 14-253a(2)(h) AND THE 2003 PORTION OF THE STATE BUILDING CODE

ADA ACCESSIBLE PARKING SPACE DETAIL

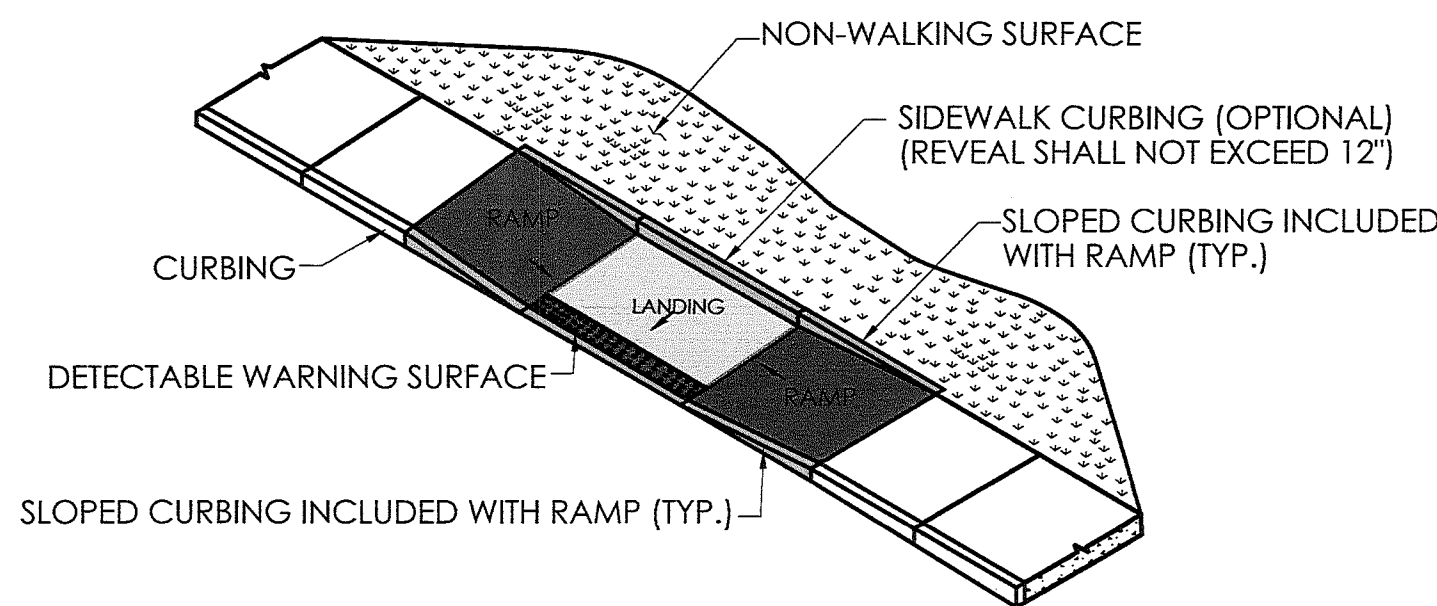
NOT TO SCALE

WIDTH	A	B
3'	3'	9'
4'	4'	12'
5'	5'	15'
6'	6'	18'



HANDICAPPED PARKING SIGN DETAIL

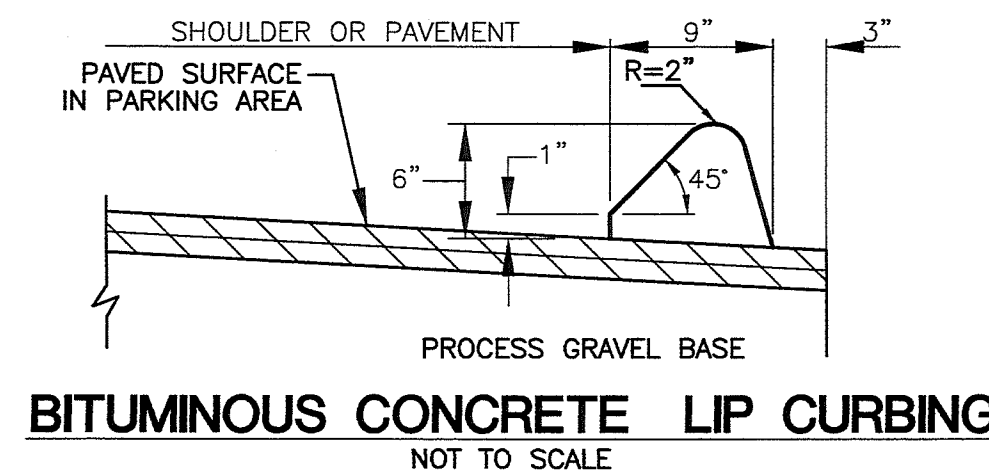
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PARALLEL RAMP

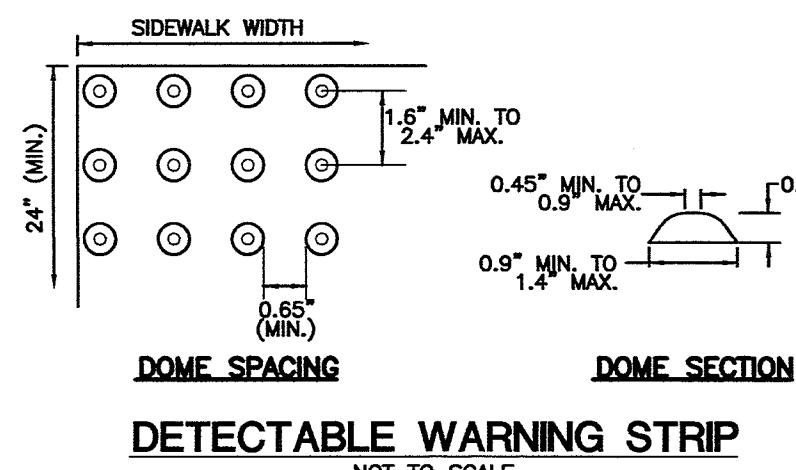
PEDESTRIAN REFUGE ISLAND

NOT TO SCALE



BITUMINOUS CONCRETE LIP CURBING

NOT TO SCALE



DETECTABLE WARNING STRIP

NOT TO SCALE

CLA Engineers, Inc. CIVIL • STRUCTURAL • SURVEYING 317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165	
No.	DATE
REVISION	
601, 603, & 604 School Street Putnam CT	
Project No. CLA-7367	
Proj. Engineer R.A.D.	
Date: 4/11/2023	
Sheet No. 5	
Construction Details & Notes	

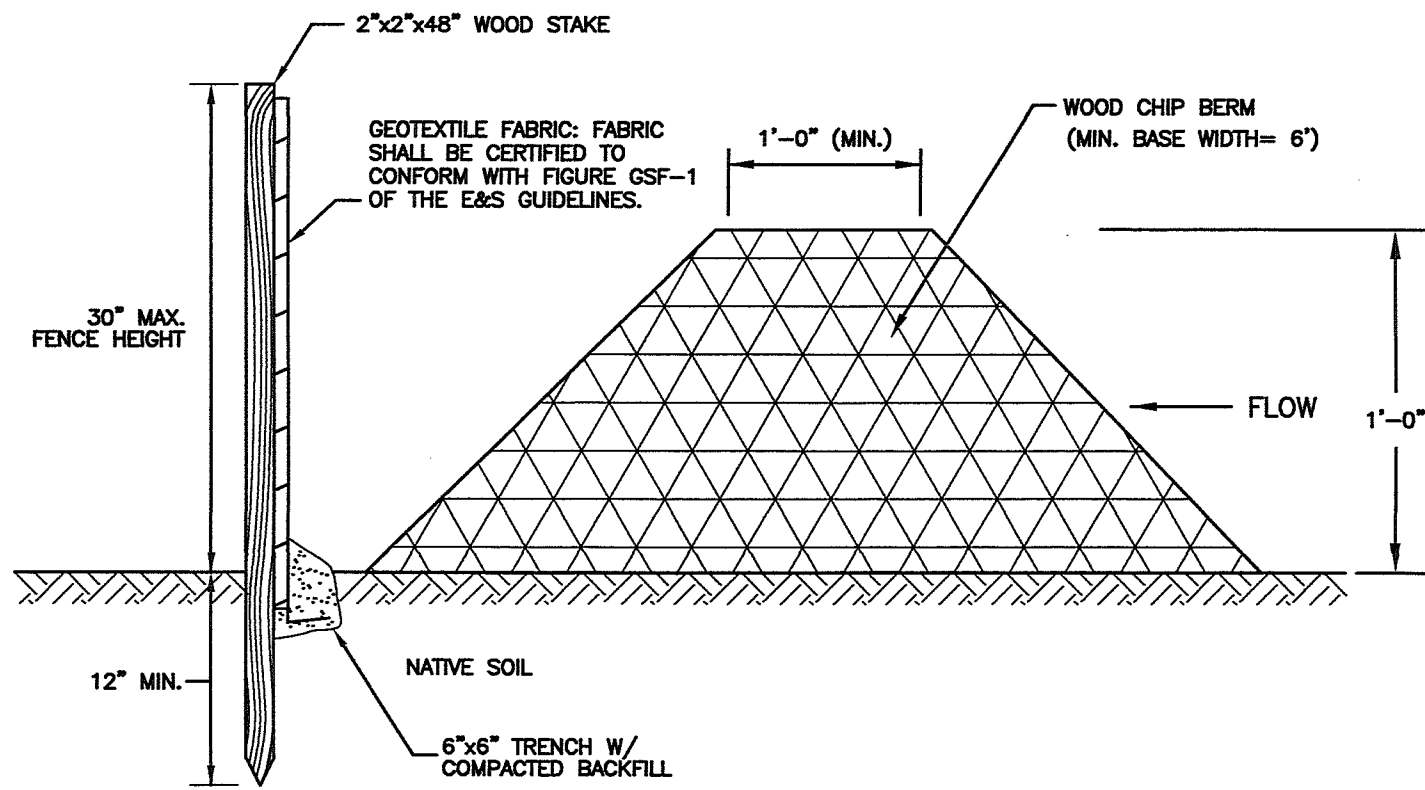
EROSION & SEDIMENTATION CONTROL NARRATIVE

1. THE EROSION & SEDIMENTATION CONTROL PLAN AND DETAILS HAVE BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEP.
2. THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL MEASURES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDED SILT FENCE, STONE CHECK DAMS AND/OR OTHER EROSION CONTROL MEASURES AS NEEDED OR DIRECTED BY THE ENGINEER OR TOWN STAFF TO ADEQUATELY PREVENT SEDIMENT TRANSPORT.
3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE.
4. THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEASURES EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT. SEDIMENT DEPOSITS MUST BE REMOVED WHEN WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
5. STAKED HAY BALE SILT BARRIERS OR SILT FENCE SHALL BE INSTALLED AROUND ANY TEMPORARY STOCKPILE AREAS. TEMPORARY VEGETATIVE COVER MAY BE REQUIRED (SEE NOTE).
6. INLET SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED UNDER THE GRATES OF ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION, AND UNDER THE GRATES OF EXISTING CATCH BASINS IN THE CONSTRUCTION AREA.
7. CONTINUOUS DUST CONTROL USING WATER OR APPROVED EQUAL SHALL BE PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, SURFACES OF BACKFILLED TRENCHES AND GRAVELED ROADWAY SURFACES. **THE USE OF CALCIUM CHLORIDE FOR DUST CONTROL SHALL NOT BE ALLOWED.**
8. IF DEWATERING IS NECESSARY DURING ANY TIME OF CONSTRUCTION A CLEAR WATER DISCHARGE SHALL BE PROVIDED AS SHOWN IN THE HAY-BALE BARRIER DEWATERING DETAIL OR ALTERNATE METHOD PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
9. ALL DISTURBED AREAS SHALL BE RESTORED PER THE SLOPE STABILIZATION AND PERMANENT VEGETATION DETAILS. ALL DISTURBED AREAS THAT ARE SLOPED LESS THAN THREE HORIZONTAL TO ONE VERTICAL (3:1) SLOPE SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED PER THE PERMANENT VEGETATIVE COVER SPECIFICATIONS. EROSION CONTROL MATTING SHALL BE PROVIDED ON ALL DISTURBED AREAS THAT ARE SLOPED MORE THAN THREE HORIZONTAL TO ONE VERTICAL (3:1).
10. IF FINAL SEEDING OF DISTURBED AREAS IS NOT TO BE COMPLETED BEFORE OCTOBER 15, THE CONTRACTOR SHALL PROVIDE TEMPORARY MULCHING (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY EROSION.
11. WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISHED GRADED SHALL BE COMPLETED PRIOR TO OCTOBER 15.
12. ANY EROSION WHICH OCCURS WITHIN THE DISTURBED AREAS SHALL BE IMMEDIATELY REPAIRED AND STABILIZED. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE RETURNED TO THE SITE. POST SEEDING, INTERCEPTED SEDIMENT, IF ANY, SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE TOWN AND ENGINEER.
13. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS RE-ESTABLISHED OR SLOPES ARE STABILIZED AND REMOVAL IS APPROVED BY THE TOWN.
14. UNFORESEEN PROBLEMS WHICH ARE ENCOUNTERED IN THE FIELD SHALL BE SOLVED ACCORDING TO THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEP.
15. THE CONTRACTOR SHALL PROVIDE THE NAME AND EMERGENCY CONTACT INFORMATION FOR THE PROJECT PERSONNEL RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROLS PRIOR TO THE START OF CONSTRUCTION.
16. THE WETLANDS ENFORCEMENT OFFICER SHALL BE NOTIFIED AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION TO INSPECT EROSION CONTROLS.

STORMWATER MANAGEMENT & POLLUTION PREVENTION PLAN

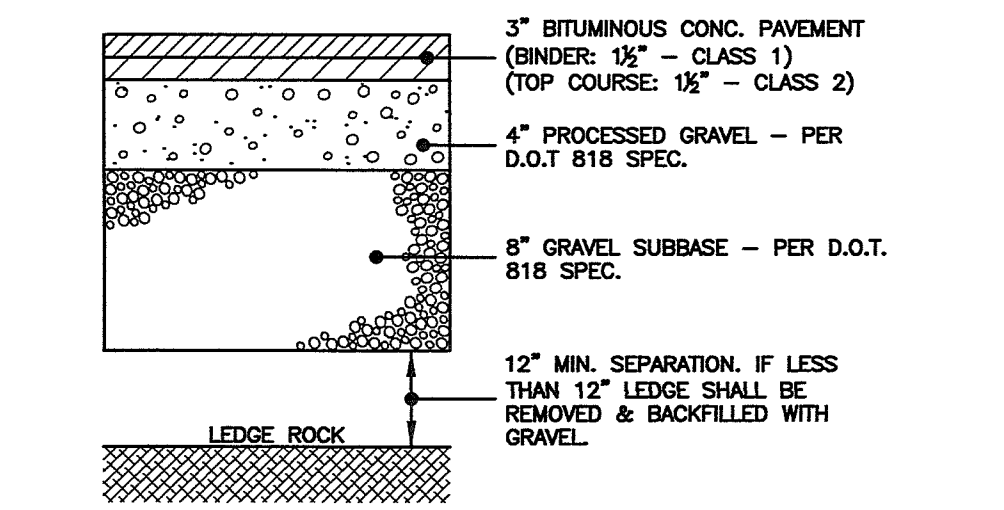
- DURING CONSTRUCTION**
1. **POLLUTION PREVENTION TEAM:**
THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT THE PROVISIONS OF THIS PLAN.
2. **SWEEPING:**
PARKING LOTS, SIDEWALKS AND OTHER IMPERVIOUS SURFACES BEYOND THE WORK SITE SHALL BE SWEEPED CLEAN OF SAND, SILT AND LITTER DAILY AT THE END OF THE WORK DAY.
3. **OUTSIDE STORAGE:**
ACCESSORIES OR EQUIPMENT STORED OUTSIDE SHALL BE COVERED OR MAINTAINED TO MINIMIZE POSSIBILITY OF THESE MATERIALS OR THEIR RESIDUE PASSING TO STORM WATER.
4. **WASHING:**
NO WASHING OF VEHICLES, ACCESSORIES, EQUIPMENT OR APPLIANCES IN WORK SITE.
5. **MAINTENANCE AND INSPECTION:**
- A. THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEASURES EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT.
- B. SEDIMENT DEPOSITS MUST BE REMOVED WHEN WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
- C. DAILY DUST CONTROL USING WATER, CALCIUM CHLORIDE OR APPROVED EQUAL SHALL BE PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, SURFACES OF BACKFILLED TRENCHES AND GRAVELED SURFACES.
6. **SPILLS OR ACCIDENTAL DISCHARGES:**
- A. COMPLY WITH STATE AND FEDERAL REGULATIONS TO CONTAIN AND CLEAN UP ANY SPILL OR DISCHARGE AND DISPOSE OF MATERIALS AT AN APPROVED FACILITY.
- B. CONTACT CONNECTICUT DEEP OIL AND CHEMICAL SPILL RESPONSE DIVISION (860) 424-3338
- C. THE FOLLOWING STEPS SHOULD BE PERFORMED AS SOON AS POSSIBLE:
- a. STOP THE SOURCE OF THE SPILL
- b. CONTAIN THE SPILL
- c. COVER SPILL WITH ABSORBENT MATERIAL SUCH AS KITTY LITER, SAWDUST OR OIL ABSORBENT PADS. DO NOT USE STRAW.
- d. DISPOSE OF ABSORBER IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.

- POST CONSTRUCTION**
1. **POLLUTION PREVENTION TEAM:**
THE OWNERS WILL BE RESPONSIBLE FOR CARRYING OUT THE PROVISIONS OF THIS PLAN.
2. **SWEEPING:**
PARKING LOTS, SIDEWALKS AND OTHER IMPERVIOUS SURFACES SHALL BE SWEEPED CLEAN OF SAND AND LITTER AND ANY OTHER POLLUTANTS AT LEAST TWICE PER YEAR.
- A. BETWEEN NOVEMBER 15 AND DECEMBER 15 (AFTER LEAF FALL)
- B. DURING APRIL (AFTER SNOW MELT)
3. **OUTSIDE STORAGE:**
ACCESSORIES OR EQUIPMENT STORED OUTSIDE SHALL BE COVERED OR MAINTAINED TO MINIMIZE POSSIBILITY OF THESE MATERIALS OR THEIR RESIDUE PASSING TO STORM WATER.
4. **WASHING:**
NO WASHING OF VEHICLES, ACCESSORIES, EQUIPMENT OR APPLIANCES IN PARKING AREAS.
5. **MAINTENANCE AND INSPECTION:**
- A. MONTHLY INSPECTION OF STORM WATER STRUCTURES AND OUTFALLS.
- B. CLEAN SEDIMENT AND DEBRIS FROM STRUCTURES AT LEAST ONCE PER YEAR DURING APRIL.
- C. REMOVE SEDIMENT AND DEBRIS FROM WATER QUALITY, RETENTION, DETENTION BASINS AND RAIN GARDENS WHEN SEDIMENT ACCUMULATION REACHES ½ OF THE THE STORAGE VOLUME OF THE BASIN OR GARDEN.
- D. PROVIDE INSPECTION AND MAINTENANCE REPORT TO THE TOWN ANNUALLY.
- E. **RETENTION BASIN:** MOW/BURN/HOG BOTTOM ONCE PER YEAR ON SEPTEMBER.
- F. **RAIN GARDENS:** MOW BOTTOM 2-3 TIMES PER YEAR, AS NEEDED.
- REMOVE SEDIMENT AND LEAF LITTER TWICE YEARLY
- a. BETWEEN NOVEMBER 15 AND DECEMBER 15 (AFTER LEAF FALL)
- b. DURING APRIL (AFTER SNOW MELT)
6. **SPILLS OR ACCIDENTAL DISCHARGES:**
- C. COMPLY WITH STATE AND FEDERAL REGULATIONS TO CONTAIN AND CLEAN UP ANY SPILL OR DISCHARGE AND DISPOSE OF MATERIALS AT AN APPROVED FACILITY.
- D. CONTACT CONNECTICUT DEEP OIL AND CHEMICAL SPILL RESPONSE DIVISION (860) 424-3338
- E. THE FOLLOWING STEPS SHOULD BE PERFORMED AS SOON AS POSSIBLE:
- a. STOP THE SOURCE OF THE SPILL
- b. CONTAIN THE SPILL
- c. COVER SPILL WITH ABSORBENT MATERIAL SUCH AS KITTY LITER, SAWDUST OR OIL ABSORBENT PADS. DO NOT USE STRAW.
- d. DISPOSE OF ABSORBER IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.



WOOD CHIP BERM BACKED WITH SILT FENCE

NOT TO SCALE



- NOTES:
1. PROVIDE CONTINUOUS TACK COAT ALONG EDGE WHEN MATCHING EXISTING PAVEMENT
2. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL WHEN TESTED IN ACCORDANCE WITH AASHTO T180, METHOD D

TYPICAL PAVEMENT SECTION DETAIL

TEMPORARY VEGETATIVE COVER

A TEMPORARY SEEDING OF RYE GRASS WILL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF STOCKPILES. IF THE SOIL IN THE STOCKPILES HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS IT SHALL BE LOOSENED TO A DEPTH OF 2 INCHES BEFORE THE FERTILIZER, LIME AND SEED IS APPLIED. 10-10-10 FERTILIZER AT A RATE OF 7.5 POUNDS PER 1000 S.F. LIMESTONE AT A RATE OF 90 LBS. PER 1000 S.F. SHALL BE USED. RYE GRASS APPLIED AT A RATE OF 1 LB. PER 1000 S.F. SHALL PROVIDE THE TEMPORARY VEGETATIVE COVER. STRAW FREE FROM WEEDS AND COARSE MATTER SHALL BE USED AT A RATE OF 70-90 LBS. PER 1000 S.F. AS A TEMPORARY MULCH. APPLY MULCH AND DRIVE TRACKED EQUIPMENT UP AND DOWN SLOPE OVER ENTIRE SURFACE SO CLEAT MARKS ARE PARALLEL TO THE CONTOURS.

PERMANENT VEGETATIVE COVER

TOPSOIL WILL BE REPLACED ONCE THE EXCAVATIONS HAVE BEEN COMPLETED AND THE SLOPES ARE GRADED AS SHOWN ON THE PLANS. PROVIDE SLOPE PROTECTION AS CALLED FOR ON THE PLANS AND DETAILS. TOPSOIL SHALL BE SPREAD AT A MINIMUM COMPACTED DEPTH OF 4 INCHES. ONCE THE TOPSOIL HAS BEEN SPREAD, ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION WILL BE REMOVED AS WELL AS DEBRIS.

- APPLY AGRICULTURAL GROUND LIMESTONE AT THE RATE OF TWO TONS PER ACRE OR 100 LBS. PER 1000 S.F.
- APPLY 10-10-10 FERTILIZER OR EQUIVALENT AT A RATE OF 300 LBS. PER ACRE OR 7.5 LBS. PER S.F.
- WORK LIMESTONE AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES.
- INSPECT SEEDBED BEFORE SEEDING.
- IF TRAFFIC HAS COMPACTED THE SOIL, RETILL COMPACTED AREAS.
- APPLY THE FOLLOWING GRASS SEED MIX:

SEED MIXTURE	LBS./ACRE	LBS./1000 S.F.
ALL DISTURBED AREAS		
KENTUCKY BLUEGRASS	75	1.72
CREeping RED FESCUE	75	1.72
PERENNIAL RYEGRASS	25	0.58
	175	4.00

RAIN GARDENS, SWALES & BASINS

SEE BELOW

THE RECOMMENDED SEEDING DATES ARE:
APRIL 1 - JUNE 15 AND AUGUST 15 - OCTOBER 15

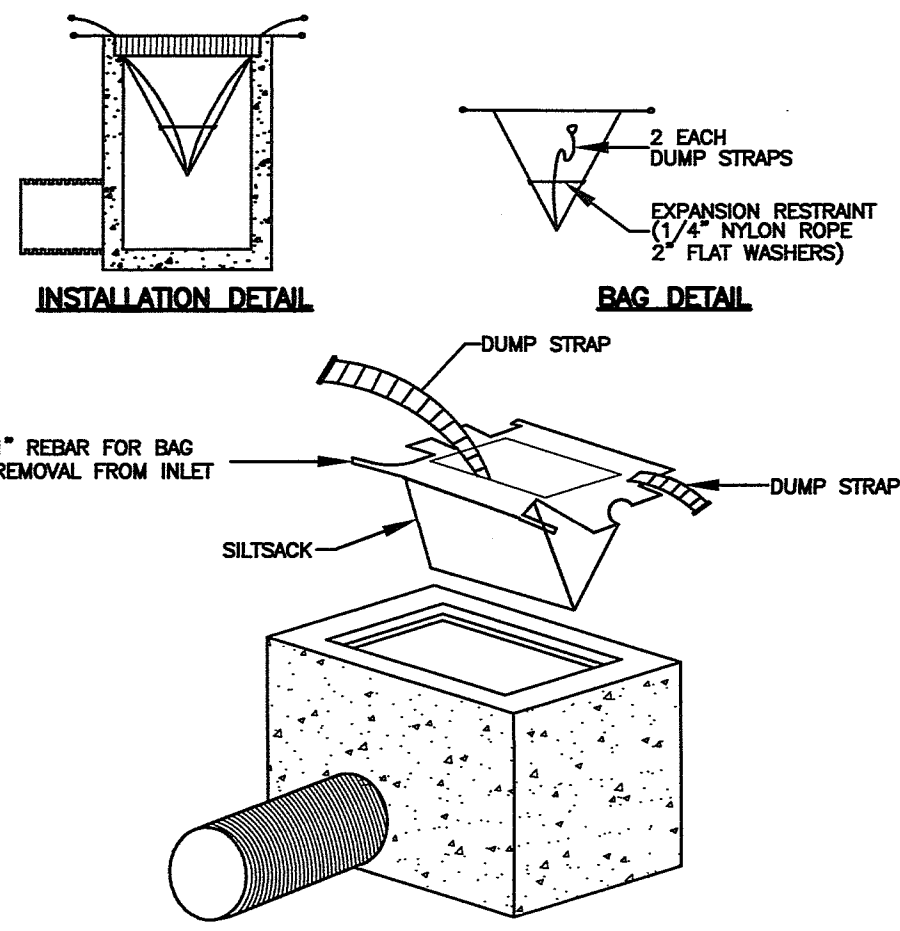
IMMEDIATELY FOLLOWING SEEDING, FIRM SEED BED WITH A ROLLER AND MULCH WITH WEED FREE STRAW. IF PERMANENT VEGETATIVE COVER IS HAS NOT BEEN ESTABLISHED BY OCTOBER 15, APPLY A TEMPORARY VEGETATIVE COVER ON THE TOPSOIL.

SEED MIXTURE FOR SETTLING BASINS SHALL BE THE "NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR MOIST SITES" FROM NEW ENGLAND WETLAND PLANTS, AMHERST, MA, TELEPHONE NO. 413-548-8000

THE BEST RESULTS ARE OBTAINED WITH A SPRING SEEDING. SUMMER AND FALL SEEDING REQUIRE A LIGHT MULCHING OF WEED FREE STRAW TO CONSERVE MOISTURE. LATE FALL AND WINTER DORMANT SEEDING REQUIRE A 10% INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT REQUIRED UNLESS THE SOILS ARE PARTICULARLY INFERTILE.

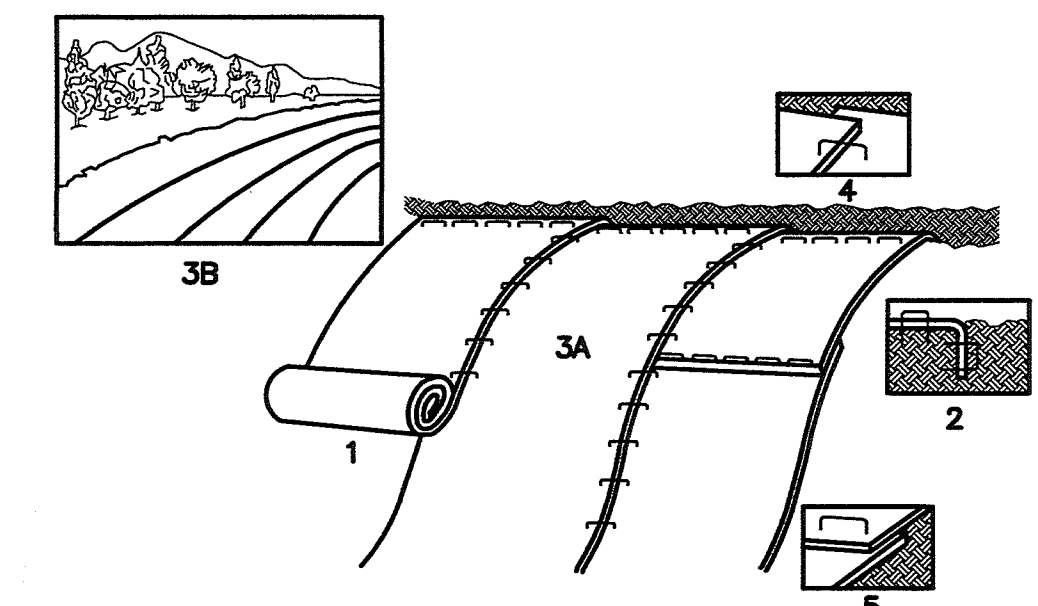
RAIN GARDEN SEED MIXTURE

	LBS./ACRE	LBS./1000 S.F.
NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES	35	0.80
SPECIES: Virginia Wild Rye, (Elymus virginicus), Creeping Red Fescue, (Festuca rubra), Little Bluestem, (Schizachyrium scoparium), Big Bluestem, (Andropogon gerardii), Fox Sedge, (Carex vulpinoidea), Switch Grass, (Panicum virgatum), Rough Bentgrass, (Agrostis scabra), New England Aster, (Aster novae-angliae), Boneset, (Eupatorium perfoliatum), Grass Leaved Goldenrod, (Euthamia graminifolia), Green Burdock, (Scirpus atrovirens), Blue Vervain, (Verbena hastata), Soft Rush, (Juncus effusus), Wool Grass, (Scirpus operinus)		

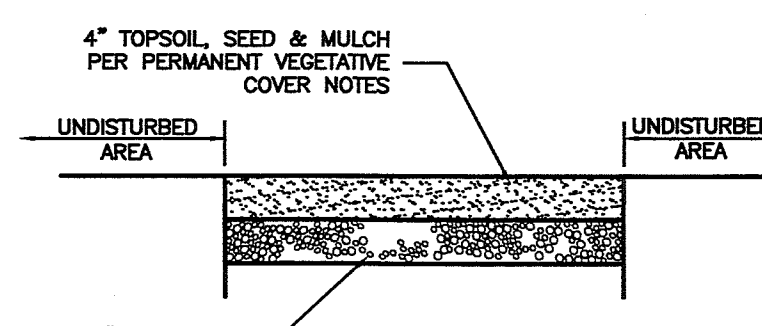


INLET SEDIMENT CONTROL DEVICE DETAIL

NOT TO SCALE



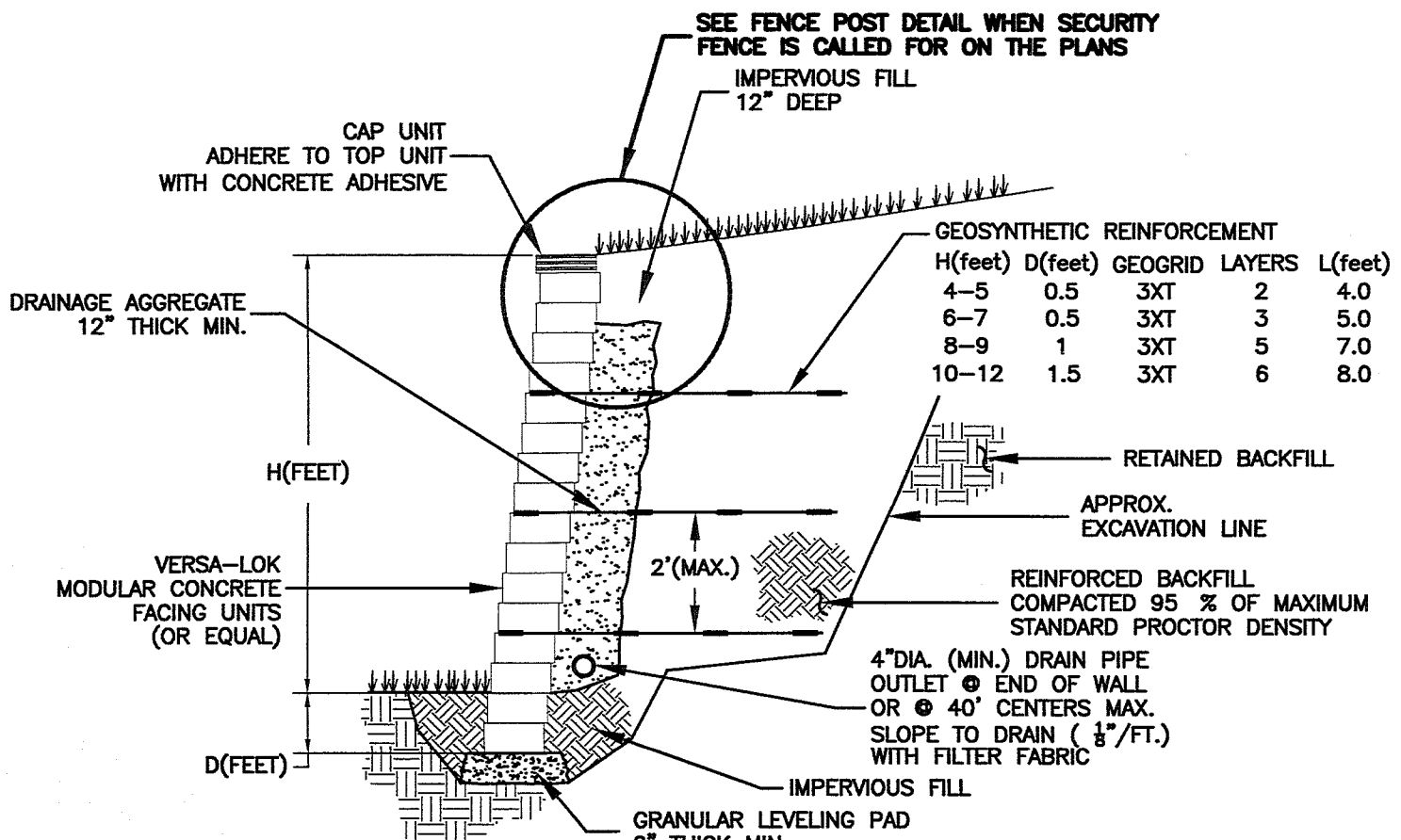
EROSION CONTROL MATTING DETAIL (FOR 3:1 SLOPES OR GREATER)



TYPICAL LOAM & SEED SECTION DETAIL (FOR ALL DISTURBED AREAS)

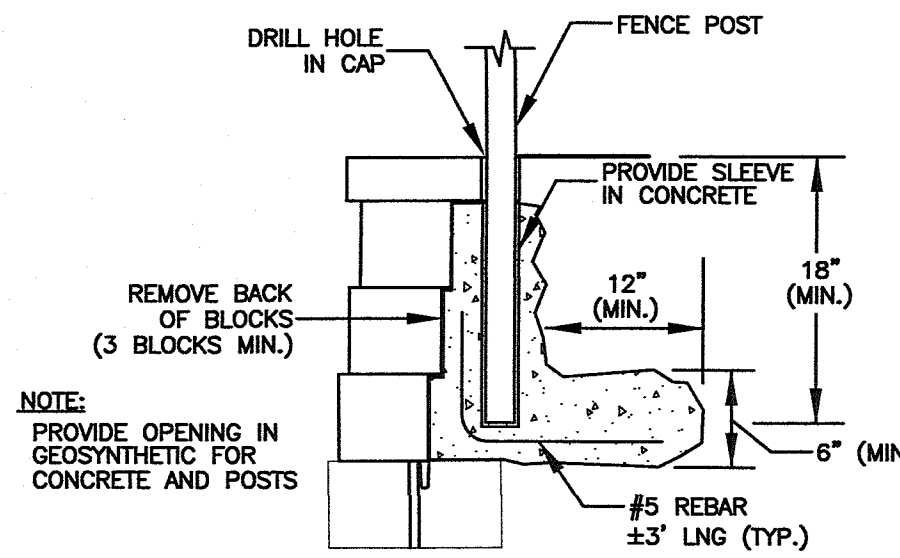
SLOPE STABILIZATION DETAILS

NOT TO SCALE



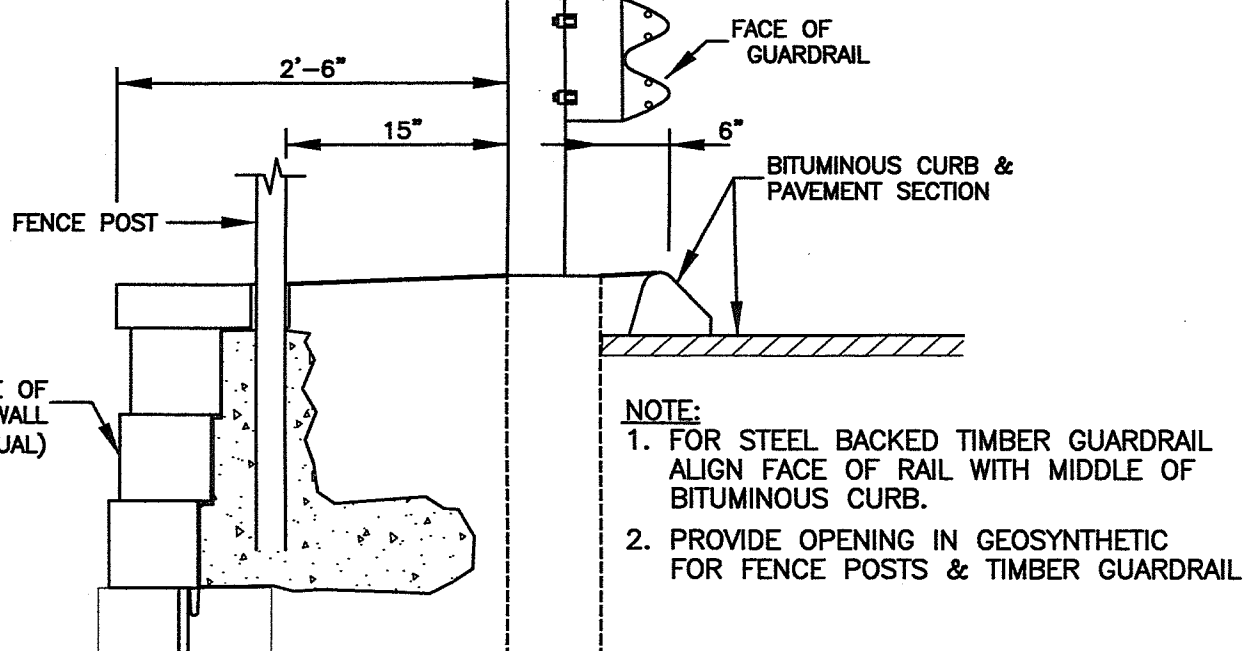
CONCRETE BLOCK RETAINING WALL

NOT TO SCALE



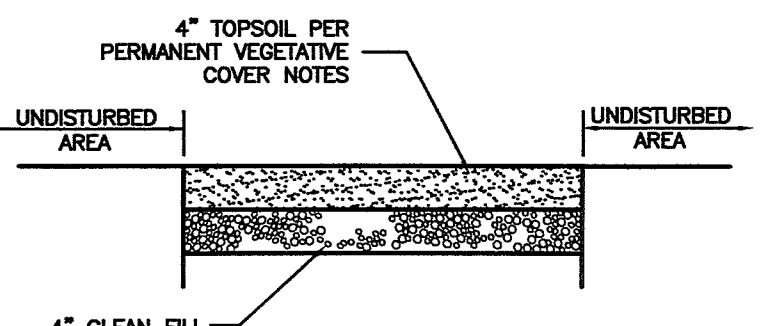
CONCRETE BLOCK RETAINING WALL W/ SECURITY FENCE

NOT TO SCALE



CONCRETE BLOCK RETAINING WALL W/ SECURITY FENCE AND GUARDRAIL

NOT TO SCALE



LOAM & SEED CROSS-SECTION DETAIL

NOT TO SCALE

WATER QUALITY FLOW RATE CALCULATIONS	
WATERSHED 601- 603 School Street	
Water Quality Volume (WQV) (Volume of Runoff Generated by one inch of Rainfall on site)	
Sizing in Accordance with Chapter 7.4.1 of the DEEP 2004 Storm Water Quality Manual	
Water Quality Volume (WQV) = (I") (R) (A) / 12	
R = 0.05 + 0.009(I)	
I = percent of impervious cover	
A = watershed area	
Total Watershed Area (Ac.):	0.58
Watershed Impervious Area (Ac.):	0.34
I =	58.6%
R =	0.578
Required WQV =	0.0279 Ac.-Ft
	1,216.1 CF
Depth of Basin	1,400 Ft.
Provided WQV =	1400 CF

CLA Engineers, Inc.

CIVIL · STRUCTURAL · SURVEYING

317 Main Street Norwich, CT 06360

(860) 886-1966 Fax (860) 886-9165

No. DATE REVISION

601, 603, & 604 School Street Putnam CT

Parking Improvements

Erosion Control Details & Notes

Project No. CLA-7367

Proj. Engineer R.A.D.

Date: 4/11/2023

Sheet No. 6

|| 0 0 0 4 || : 0 0 0 0 0 0 0 0 : 2 2 6 0 0 0 0 0 0 0 ||

Provost & Rovero, Inc.

Civil Engineering • Surveying • Site Planning • Structural • Mechanical • Architectural Engineering

P.O. Box 191
57 East Main Street
Plainfield, CT 06374

Telephone (860) 230-0856
Fax (860) 230-0860
www.prorovinc.com

April 11, 2023

Allan & Kathleen Rawson
19 Brookside Landing

P & R Job #223031

APPLICATION PACKAGE CONTENTS – Inland Wetlands

1. Application fee \$100.00
2. Inland Wetlands Commission application form
3. 3 copies of plans dated 3/6/2023
4. Wetland delineation report dated 2/13/2023
5. DEEP Activity Reporting Form



INLAND WETLAND COMMISSION

APPENDIX A

APPLICATION FOR PERMIT

This application is for the use of inland wetlands and water courses.

The meetings are held on the second Wednesday of every month at 7:00pm in the Town Hall. If an on-site inspection is canceled due to inclement weather, the applicant is asked to call the office at 963-6803 30 minutes before the scheduled inspection to see if or when the inspection will be held.

Name of Applicant Allan & Kathleen Rawson

Applicant's Address 210 Chase Road, Putnam, CT 06260

Phone # 860-919-6413

Owner of Land River Junction Estates LLC

Owner's Address 204 Munyan Road, Putnam, CT 06260

Location and description of proposed activity: 19 Brookside Landing

Construction of single family house, garage, driveway, septic system and well.

Activity & Purpose Code

Please **CHECK** one in each column that best describes the activity proposed.

<u>Code</u>	<u>Activity Type</u>	<u>Code</u>	<u>Activity Purpose</u>
☐	1 Filling	☐	A Residential Improvement by homeowner
☒	2 Excavation	☒	B New residential development - single family
☐	3 Land Clearing	☐	C New residential development - multi- family/condo
☐	4 Stream Channel	☐	D Commercial/Industrial Uses
☐	5 Stream Stabilization	☐	E Municipal Improvements
☐	6 Stream Clearance	☐	F Utility Company Improvements
☐	7 Culverting	☐	G Agriculture, Forestry or Conservation
☐	8 Und. Grd. Util.	☐	H Wetland Creation/Restoration
☐	9 Roadway Construction	☐	I Storm Water/Flood Control
☐	10 Drainage Improvements	☐	J Erosion/Sediment Control
☐	11 Pond Dredge/Dam Construction	☐	K Recreation/Boating/Navigation
☐	12 Activity Buffer/Set Back Area	☐	L Routine Maintenance
☐	13 Other: Please describe: _____		

INLAND WETLAND COMMISSION

APPENDIX A *Continued*

Project Name (if applicable) _____

Estimate of Linear Footage affecting Wetlands 0 _____

Affected number of acres in which Wetlands are part of
the impacted area for Multi-Family, Condos and
Commercial Development N/A _____

TO BE COMPLETED BY THE COMMISSION

Application Number _____ Date of Receipt _____

Application Approved (date) _____

Conditions of approval if applicable _____

Application Denied (date) _____

Reason(s) for Denial _____

Signature of Chairman or Secretary of Commission

Date

INLAND WETLAND COMMISSION

APPENDIX A *Continued*

Application Procedure

1. Applicant will have a map showing the property boundaries, any wetlands on the property, proposed buildings, septic area, drainage if applicable and the dimension between these areas in scale 1" - 200' or less
2. Applicant must provide an approximate estimate of the linear footage of the wetlands that are affected by said proposal. This is for multi-family, condominiums or commercial development. Contact with the Zoning Official may clarify the nature of your project
3. Applicant must provide an approximate estimate of the number of acres that are affected by said proposal dealing with multi-family, condominiums and commercial development in which wetlands are part of that impacted area within the watershed.
4. Applicant will supply a copy of the soil scientist report with the application to the Wetlands Commission to be reviewed at the meeting by the Commission.
5. Applicant will have the soil scientist number the wetland flags and record the numbers of the flags on the site plan according to their location in the field. The location on the site map must match the field location.
6. If the applicant's estimates are not accurate, payment of the correct amount must be made before the Wetlands final approval of the application.
7. And any other information deemed necessary by the Commission.

Fee Schedule

1.	Permitted and non-regulated	\$40.00
2.	One lot regulated	\$40.00
3.	Regulated Area	
	Two (2) - Ten (10) lots	\$100.00
	Ten (10) - Twenty (20) lots	\$200.00
	Over Twenty (20+) lots	\$300.00
4.	Multi-Family/Condominium Regulated area	
	Zero (0) to Five (5) Acres	\$50.00
	Per linear foot of wetlands additional	\$0.35
	Over Five (5) acres	\$100.00
	Per linear foot of wetlands additional	\$0.35
5.	Commercial	
	Zero (0) to Five (5) Acres	\$100.00
	Per linear foot of wetlands additional	\$0.50
	Over Five (5) acres	\$300.00
	Per linear foot of wetlands additional	\$0.50

All applications must be submitted one week prior to the regularly scheduled monthly meeting.



Joseph R. Theroux

~ Certified Forester/ Soil Scientist ~

Phone 860-428-7992 ~ Fax 860-376-6842

426 Shetucket Tpke, Voluntown, CT. 06384

Forestry Services ~ Environmental Impact Assessments

Wetland Delineations and Permitting ~ E&S/Site Monitoring

Wetland function and value assessments

2/13/2023

Mr. Allan Rawson
210 Chase Rd.
Putnam, CT. 06260

Re: Wetland delineation, 19 Brookside Landing, Putnam, CT.

Dear Mr. Rawson,

At your request I have delineated the inland wetlands and watercourses on the above referenced property.

These wetlands have been delineated in accordance with the standards of the National Cooperative Soil Survey and the definitions of wetlands as found in the Connecticut Statutes, Chapter 440, Sections 22A-38.

Fluorescent pink flags with a corresponding location number delineate the boundary between the upland soils and the inland wetlands/watercourses that were found.

Flag numbers WF-1 through WF-39 delineate the eastern high water mark of Cady Brook, its associated floodplain soils and adjacent inland wetlands.

Flag numbers WF-1A through WF-5A and WF-1B through WF-5B delineate the boundaries of a small inundated palustrine forested wetland in the northeast portion of the parcel.

These delineated wetland soils are characterized by organic "A" horizons, shallow redoximorphic features and low chroma colors within 20 inches of the soil surface.

In conclusion, if you have any questions concerning the delineation or this report, please feel free to contact me.

Thank you,

Joseph R. Theroux

Joseph R. Theroux
Certified Soil Scientist
Member SSSSNE, NSCSS, SSSA.

Statewide Inland Wetlands & Watercourses Activity Reporting Form

Please complete - print clearly - and mail this form in accordance with the instructions on pages 2 and 3 to:
Wetlands Management Section, Inland Water Resources Division, CT DEEP, 79 Elm Street – 3rd Floor, Hartford, CT 06106

PART I: To Be Completed By the Municipal Inland Wetlands Agency Only

1. DATE ACTION WAS TAKEN (enter one year and month): Year _____ Month _____
2. ACTION TAKEN (enter one code letter): _____
3. WAS A PUBLIC HEARING HELD (check one)? Yes _____ No _____
4. NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:
(type name) _____ (signature) _____

PART II: To Be Completed By the Municipal Inland Wetlands Agency or the Applicant

5. TOWN IN WHICH THE ACTION IS OCCURRING (type name): Putnam
Does this project cross municipal boundaries (check one)? Yes _____ No X
If Yes, list the other town(s) in which the action is occurring (type name(s)): _____
6. LOCATION (see directions for website information): USGS Quad Map Name: Thompson or Quad Number: 29
Subregional Drainage Basin Number: 3403
7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (type name): Allen & Kathleen Ranson
8. NAME & ADDRESS/LOCATION OF PROJECT SITE (type information): 19 Brookside Landing
Briefly describe the action/project/activity (check and type information): Temporary _____ Permanent X
Description: Construction of single family house
9. ACTIVITY PURPOSE CODE (enter one code letter): B
10. ACTIVITY TYPE CODE(S) (enter up to four code numbers): 2, 9, 12, 14
11. WETLAND / WATERCOURSE AREA ALTERED (type in acres or linear feet as indicated):
Wetlands: 0 acres Open Water Body: 0 acres Stream: 0 linear feet
12. UPLAND AREA ALTERED (type in acres as indicated): 2+ acres
13. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (type in acres as indicated): 0 acres

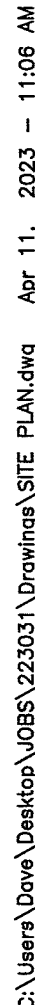
DATE RECEIVED:

PART III: To Be Completed By the DEEP

DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO

FORM CORRECTED / COMPLETED: YES NO



PERCOLATION TEST - NORTHEAST DISTRICT DEPT. OF HEALTH
FEBRUARY 1, 2000 FILE #00000396

PERC TEST #106
DEPTH: 22"

TIME	READING
12:25	7"
12:30	7.75"
12:40	9.25"
12:50	10.25"
1:00	11.75"

PERCOLATION RATE: 8.0 MIN/INCH

1. This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20-300b-1 through 20-300b-20 as amended on October 26, 2018;

This map was prepared from record research, other maps, limited field measurements and other sources. It is not to be construed as a Property/Boundary or Limited Property/Boundary Survey and is subject to such facts as said surveys may disclose.
 - This survey conforms to a Class "C" horizontal accuracy.
 - Topographic features conform to a Class "T-2" accuracy.
 - Survey Type: General Location Survey.
2. The subject parcel is shown as lot #31 on assessor's map #34.
3. Zone: AG.
4. Area of subject property: 7.09 acres.
5. Reference is made to a quit claim deed in Volume 776, Page 257 of the Putnam land records for the subject property.
6. Owner of record: River Junction Estates LLC
204 Munyan Road
Putnam, CT 06260
7. The intent of this survey is to show the residential development of the subject lot.
8. Elevations based on NAVD 1988. Contour interval = 2'.
9. Bearings shown hereon are referenced to CT state plane coordinates, NAD83(2011), Epoch 2010.0000.
10. The locations of existing utilities are based on surface evidence and other sources of information. Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1-800-922-4455.
11. If the proposed house will have any large tubs (over 100 gallons), the septic tank size shall be increased per the Public Health Code.
12. Wetlands were flagged by Joseph Theroux in January 2023.

1. "Re-Subdivision Plan - River Junction Estates - Prepared for - River Junction Estates, LLC - East Putnam Road & Chase Road - Putnam, Connecticut - Scale: 1" = 100' - Dated: 10/00, Revised: 04/22/05 - Sheet 4 of 16 - Messier & Associates, Inc." on file as map #1345.

19 BROOKSIDE LANDING
PUTNAM, CONNECTICUT

**Civil Engineering • Surveying • Site Planning
Structural • Mechanical • Architectural Engineering**

57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 230-0856 - FAX: (860) 230-0860
info@prorovinc.com
www.prorovinc.com

REVISIONS	
DATE	DESCRIPTION

DATE: 3/6/2023	DRAWN: DJH
SCALE: 1" = 30'	DESIGN: DJH
SHEET: 1 OF 2	CHK BY: ---
DWG. No: Client File	JOB No: 223031

EROSION AND SEDIMENT CONTROL PLAN:

REFERENCE IS MADE TO:

- Connecticut Guidelines for Soil Erosion and Sediment Control 2002 (2002 Guidelines).
- Soil Survey of Windham County Connecticut, U.S.D.A. Soil Conservation Service 1983.

DEVELOPMENT SCHEDULE: (Individual Lots):

- Prior to any work on site, the limits of disturbance shall be clearly flagged in the field by a Land Surveyor, licensed in the State of Connecticut. Once the limits of clearing are flagged, they shall be reviewed and approved by an agent of the Town.
- Install and maintain erosion and sedimentation control devices as shown on these plans. All erosion control devices shall be inspected by an agent of the Town. Any additional erosion control devices required by the Town's Agent shall be installed and inspected prior to any construction on site. (See silt fence installation notes.)
- Install construction entrance.
- Construction will begin with clearing, grubbing and rough grading of the proposed site. The work will be confined to areas adjacent to the proposed building, septic system and driveway. Topsoil will be stockpiled on site and utilized during final grading.
- Begin construction of the house, septic system and well.
- Disturbed areas shall be seeded and stabilized as soon as possible to prevent erosion.
- The site will be graded so that all possible trees on site will be saved to provide buffers to adjoining lots.

DEVELOPMENT CONTROL PLAN:

- Development of the site will be performed by the individual lot owner, who will be responsible for the installation and maintenance of erosion and sediment control measures required throughout construction.
- The sedimentation control mechanisms shall remain in place from start of construction until permanent vegetation has been established. The representative for the Town will be notified when sediment and erosion control structures are initially in place. Any additional soil & erosion control measures requested by the Town or its agent, shall be installed immediately. Once the proposed development, seeding and planting have been completed, the representative shall again be notified to inspect the site. The control measures will not be removed until this inspection is complete.
- All stripping is to be confined to the immediate construction area. Topsoil shall be stockpiled so that slopes do not exceed 2 to 1. A hay bale sediment barrier is to surround each stockpile and a temporary vegetative cover shall be provided.
- Dust control will be accomplished by spraying with water and if necessary, the application of calcium chloride.
- The proposed planting schedule is to be adhered to during the planting of disturbed areas throughout the proposed construction site.
- Final stabilization of the site is to follow the procedures outlined in "Permanent Vegetative Cover", if necessary a temporary vegetative cover is to be provided until a permanent cover can be applied.

SILT FENCE INSTALLATION AND MAINTENANCE:

- Dig a 6" deep trench on the uphill side of the barrier location.
- Position the posts on the downhill side of the barrier and drive the posts 1.5 feet into the ground.
- Lay the bottom 6" of the fabric in the trench to prevent undermining and backfill.
- Inspect and repair barrier after heavy rainfall.
- Inspections will be made at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater to determine maintenance needs.
- Sediment deposits are to be removed when they reach a height of 1 foot behind the barrier or half the height of the barrier and are to be deposited in an area which is not regulated by the inland wetlands commission.
- Replace or repair the fence within 24 hours of observed failure. Failure of the fence has occurred when sediment fails to be retained by the fence because:
 - the fence has been overtopped, undercut or bypassed by runoff water,
 - the fence has been moved out of position (knocked over), or
 - the geotextile has decomposed or been damaged.

HAY BALE INSTALLATION AND MAINTENANCE:

- Bales shall be placed as shown on the plans with the ends of the bales tightly abutting each other.
- Each bale shall be securely anchored with at least 2 stakes and gaps between bales shall be wedged with straw to prevent water from passing between the bales.
- Inspect bales at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater to determine maintenance needs.
- Remove sediment behind the bales when it reaches half the height of the bale and deposit in an area which is not regulated by the Inland Wetlands Commission.
- Replace or repair the barrier within 24 hours of observed failure. Failure of the barrier has occurred when sediment fails to be retained by the barrier because:
 - the barrier has been overtopped, undercut or bypassed by runoff water,
 - the barrier has been moved out of position, or
 - the hay bales have deteriorated or been damaged.

TEMPORARY VEGETATIVE COVER:

SEED SELECTION

Grass species shall be appropriate for the season and site conditions. Appropriate species are outlined in Figure TS-2 in the 2002 Guidelines.

TIMING CONSIDERATIONS

Seed with a temporary seed mixture within 7 days after the suspension of grading work in disturbed areas where the suspension of work is expected to be more than 30 days but less than 1 year.

SITE PREPARATION

Install needed erosion control measures such as diversions, grade stabilization structures, sediment basins and grassed waterways.

Grade according to plans and allow for the use of appropriate equipment for seedbed preparation, seeding, mulch application, and mulch anchoring.

SEEDBED PREPARATION

Loosen the soil to a depth of 3-4 inches with a slightly roughened surface. If the area has been recently loosened or disturbed, no further roughening is required. Soil preparation can be accomplished by tracking with a bulldozer, discing, harrowing, raking or dragging with a section of chain link fence. Avoid excessive compaction of the surface by equipment traveling back and forth over the surface. If the slope is tracked, the cleat marks shall be perpendicular to the anticipated direction of the flow of surface water.

If soil testing is not practical or feasible on small or variable sites, or where timing is critical, fertilizer may be applied at the rate of 300 pounds per acre or 7.5 pounds per 1,000 square feet of 10-10-10 or equivalent. Additionally, lime may be applied using rates given in Figure TS-1 in the 2002 Guidelines.

SEEDING

Apply seed uniformly by hand cyclone seeder, drill, cultipacker type seeder or hydroseeder at a minimum rate for the selected species. Increase seeding rates by 10% when hydroseeding.

MULCHING

Temporary seedings made during optimum seeding dates shall be mulched according to the recommendations in the 2002 Guidelines. When seeding outside of the recommended dates, increase the application of mulch to provide 95%-100% coverage.

MAINTENANCE

Inspect seeded area at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater for seed and mulch movement and fill erosion.

Where seed has moved or where soil erosion has occurred, determine the cause of the failure. Repair eroded areas and install additional controls if required to prevent recurrence of erosion.

Continue inspections until the grasses are firmly established. Grasses shall not be considered established until a ground cover is achieved which is mature enough to control soil erosion and to survive severe weather conditions (approximately 80% vegetative cover).

PERMANENT VEGETATIVE COVER:

Refer to Permanent Seeding Measure in the 2002 Guidelines for specific applications and details related to the installation and maintenance of a permanent vegetative cover. In general, the following sequence of operations shall apply:

- Topsoil will be replaced once the excavation and grading has been completed. Topsoil will be spread at a minimum compacted depth of 4".
- Once the topsoil has been spread, all stones 2" or larger in any dimension will be removed as well as debris.
- Apply agricultural ground limestone at a rate of 2 tons per acre or 100 lbs. per 1000 s.f. Apply 10-10-10 fertilizer or equivalent at a rate of 300 lbs. per acre or 7.5 lbs. per 1000 s.f. Work time and fertilizer into the soil to a depth of 4".
- Inspect seedbed before seeding. If traffic has compacted the soil, retil compacted areas.
- Apply the chosen grass seed mix. The recommended seeding dates are: April 1 to June 15 & August 15 - October 1.
- Following seeding, firm seedbed with a roller. Mulch immediately following seeding. If a permanent vegetative stand cannot be established by September 30, apply a temporary cover on the topsoil such as netting, mat or organic mulch.

EROSION AND SEDIMENT CONTROL NARRATIVE:

PRINCIPLES OF EROSION AND SEDIMENT CONTROL

The primary function of erosion and sediment controls is to absorb erosional energies and reduce runoff velocities that force the detachment and transport of soil and/or encourage the deposition of eroded soil particles before they reach any sensitive area.

KEEP LAND DISTURBANCE TO A MINIMUM

The more land that is in vegetative cover, the more surface water will infiltrate into the soil, thus minimizing stormwater runoff and potential erosion. Keeping land disturbance to a minimum not only involves minimizing the extent of exposure at any one time, but also the duration of exposure. Phasing, sequencing and construction scheduling are interrelated. Phasing divides a large project into distinct sections where construction work over a specific area occurs over distinct periods of time and each phase is not dependent upon a subsequent phase in order to be functional. A sequence is the order in which construction activities are to occur during any particular phase. A sequence should be developed on the premise of "first things first" and "last things last" with proper attention given to the inclusion of adequate erosion and sediment control measures. A construction schedule is a sequence with time lines applied to it and should address the potential overlap of actions in a sequence which may be in conflict with each other.

- Limit areas of clearing and grading. Protect natural vegetation from construction equipment with fencing, tree armoring, and retaining walls or tree wells.
- Route traffic patterns within the site to avoid existing or newly planted vegetation.
- Phase construction so that areas which are actively being developed at any one time are minimized and only that area under construction is exposed. Clear only those areas essential for construction.
- Sequence the construction of storm drainage systems so that they are operational as soon as possible during construction. Ensure all outlets are stable before outletting storm drainage flow into them.
- Schedule construction so that final grading and stabilization is completed as soon as possible.

SLOW THE FLOW

Detachment and transport of eroded soil must be kept to a minimum by absorbing and reducing the erosive energy of water. The erosive energy of water increases as the volume and velocity of runoff increases. The volume and velocity of runoff increases during development as a result of reduced infiltration rates caused by the removal of existing vegetation, removal of topsoil, compaction of soil and the construction of impervious surfaces.

- Use diversions, stone dikes, silt fences and similar measures to break flow lines and dissipate storm water energy.
- Avoid diverting one drainage system into another without calculating the potential for downstream flooding or erosion.

KEEP CLEAN RUNOFF SEPARATED

Clean runoff should be kept separated from sediment laden water and should not be directed over disturbed areas without additional controls. Additionally, prevent the mixing of clean off-site generated runoff with sediment laden runoff generated on-site until after adequate filtration of on-site waters has occurred.

- Segregate construction waters from clean water.
- Divert site runoff to keep it isolated from wetlands, watercourses and drainage ways that flow through or near the development until the sediment in that runoff is trapped or detained.

REDUCE ON SITE POTENTIAL INTERNALLY AND INSTALL PERIMETER CONTROLS

While it may seem less complicated to collect all waters to one point of discharge for treatment and just install a perimeter control, it can be more effective to apply internal controls to many small sub-drainage basins within the site. By reducing sediment loading from within the site, the chance of perimeter control failure and the potential off-site damage that it can cause is reduced. It is generally more expensive to correct off-site damage than it is to install proper internal controls.

- Control erosion and sedimentation in the smallest drainage area possible. It is easier to control erosion than to contend with sediment after it has been carried downstream and deposited in unwanted areas.
- Direct runoff from small disturbed areas to adjoining undisturbed vegetated areas to reduce the potential for concentrated flows and increase settlement and filtering of sediments.
- Concentrated runoff from development should be safely conveyed to stable outlets using rip rapped channels, waterways, diversions, storm drains or similar measures.
- Determine the need for sediment basins. Sediment basins are required on larger developments where major grading is planned and where it is impossible or impractical to control erosion at the source. Sediment basins are needed on large and small sites when sensitive areas such as wetlands, watercourses, and streets would be impacted by off-site sediment deposition. Do not locate sediment basins in wetlands or permanent or intermittent watercourses. Sediment basins should be located to intercept runoff prior to its entry into the wetland or watercourse.
- Grade and landscape around buildings and septic systems to divert water away from them.

SEPTIC SYSTEM CONSTRUCTION NOTES

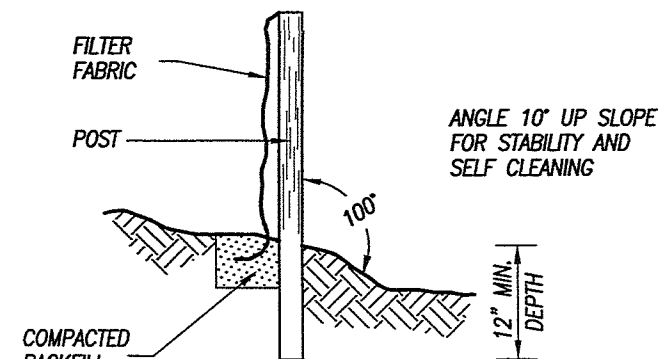
- The building, septic system and well shall be accurately staked in the field by a licensed Land Surveyor in the State of Connecticut, prior to construction.
- Topsoil shall be removed and in the area of the primary leaching field scarified, prior to placement of septic fill. Septic fill specifications are as follows:
 - Max. percent of gravel (material between No. 4 & 3 inch sieves) = 45%

GRADATION OF FILL (MINUS GRAVEL)

SIEVE SIZE	PERCENT PASSING (WET SIEVE)	PERCENT PASSING (DRY SIEVE)
No. 4	100%	100%
No. 10	70% - 100%	70% - 100%
No. 40	10% - 50%	10% - 75%
No. 100	0% - 20%	0% - 5%
No. 200	0% - 5%	0% - 2.5%

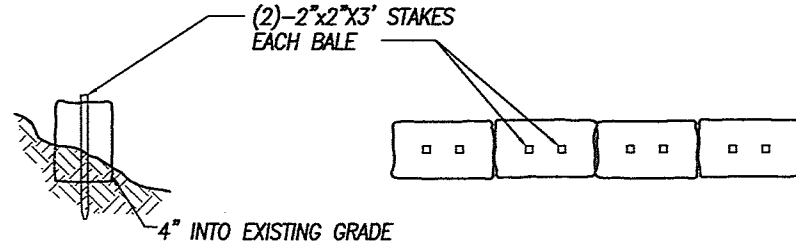
Fill material shall be approved by the sanitarian prior to placement. It shall be compacted in 6" lifts and shall extend a minimum of ten feet (10') beyond the last leaching trench before tapering off.

- Septic tank shall be two compartment precast 1000 gallon tank with gas deflector and outlet filter as manufactured by Jolley Precast, Inc. or equal.
- Distribution boxes shall be 4 hole precast concrete as manufactured by Jolley Precast, Inc. or equal.
- All precast structures such as septic tanks, distribution boxes, etc. shall be set level on six inches (6") of compacted gravel base at the elevations specified on the plans.
- Solid distribution pipe shall be 4" diameter PVC meeting ASTM D-3034 SDR 35 with compression gasket joints. It shall be laid true to the lines and grades shown on the plans and in no case have a slope less than 0.125 inches per foot.
- Perforated distribution pipe shall be 4" diameter PVC meeting ASTM D-2729 or ASTM D-3350, 1500 lb. minimum crush.
- Sewer pipe from the foundation wall to the septic tank shall be schedule 40 PVC meeting ASTM D 1785. It shall be laid true to the grades shown on the plans and in no case shall have a slope less than 0.25 inches per foot.
- Force main pressure pipe from pump chamber to the leaching field shall be 2" diameter pvc meeting ASTM D 2241 SDR 21.
- Solid footing drain outlet pipe shall be 4" Diameter PVC meeting ASTM D 3034, SDR 35 with compression gasketed joints. Footing drain outlet pipe shall not be backfilled with free draining material, such as gravel, broken stone, rock fragments, etc.



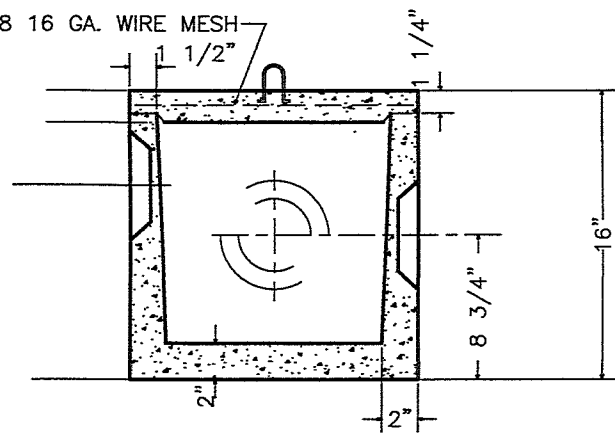
SILT FENCE

NOT TO SCALE



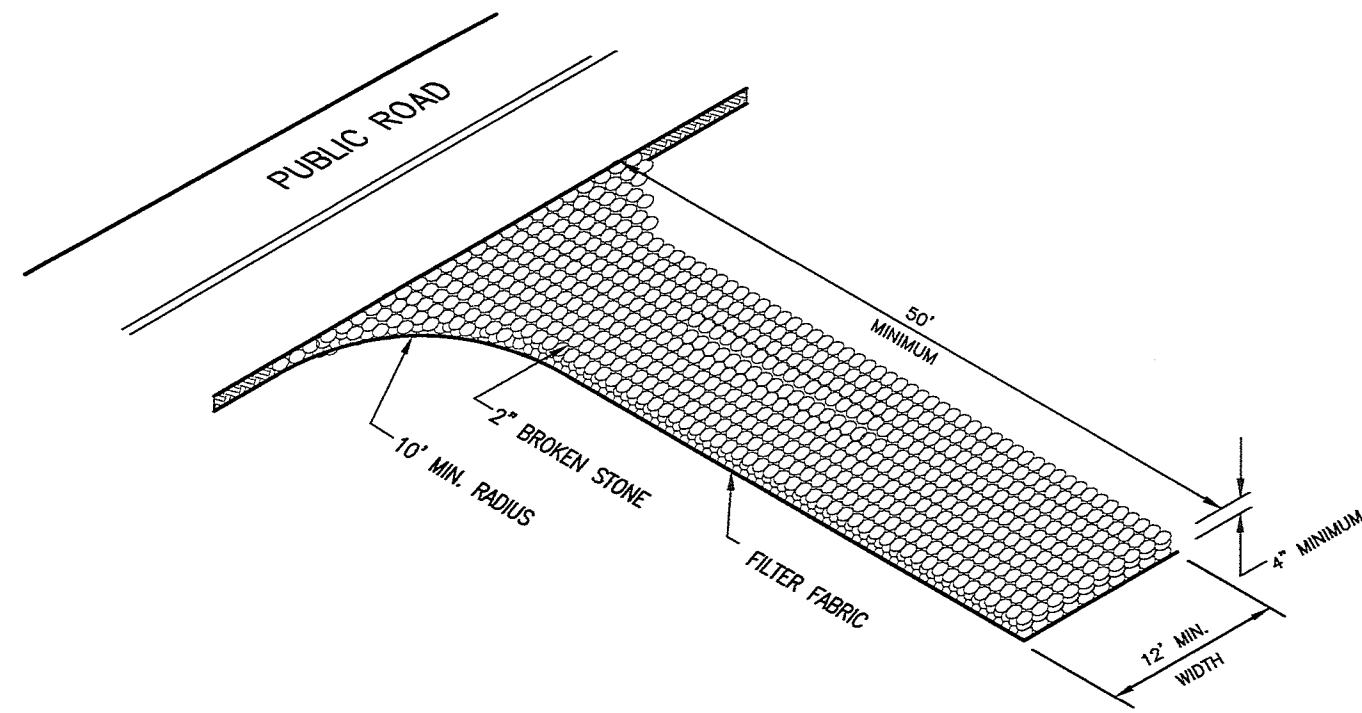
HAYBALE BARRIER

NOT TO SCALE



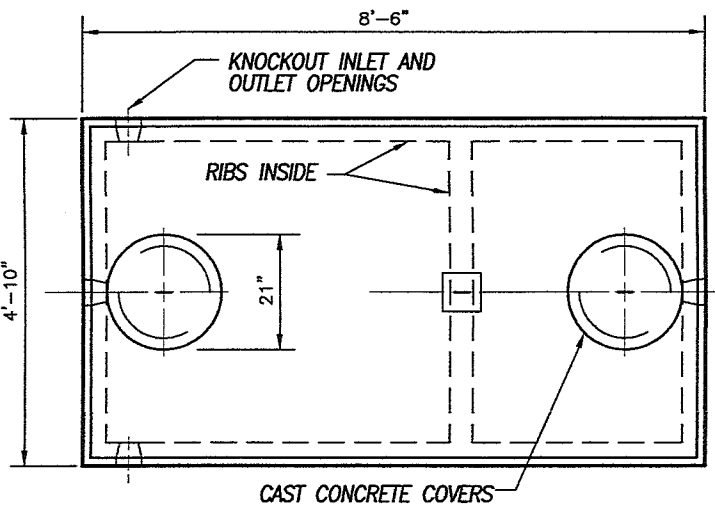
STANDARD D-BOX

NOT TO SCALE



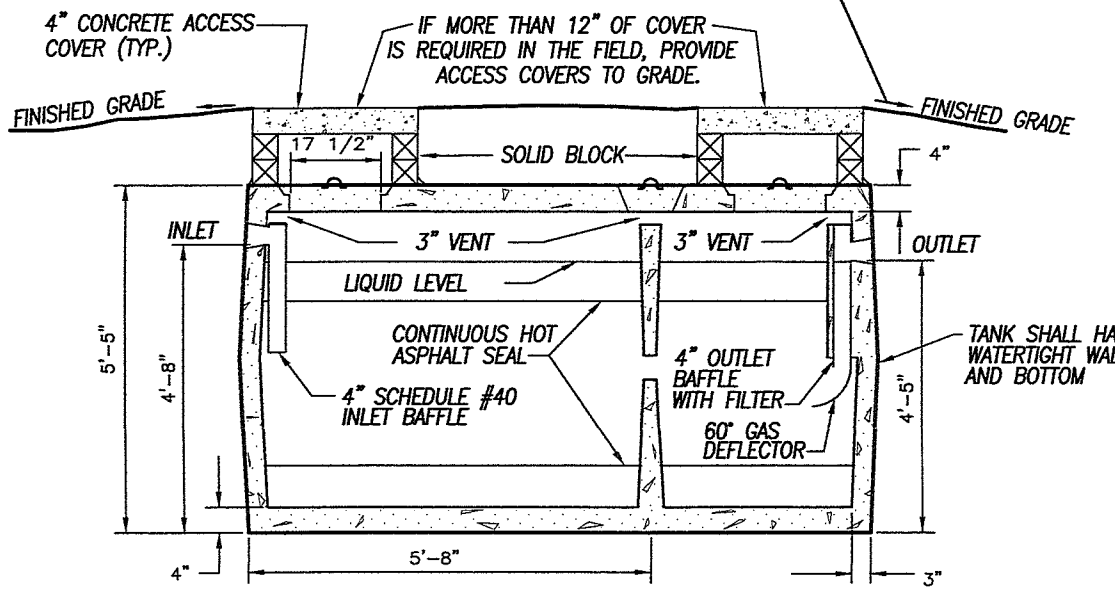
CONSTRUCTION ENTRANCE

NOT TO SCALE



PLAN

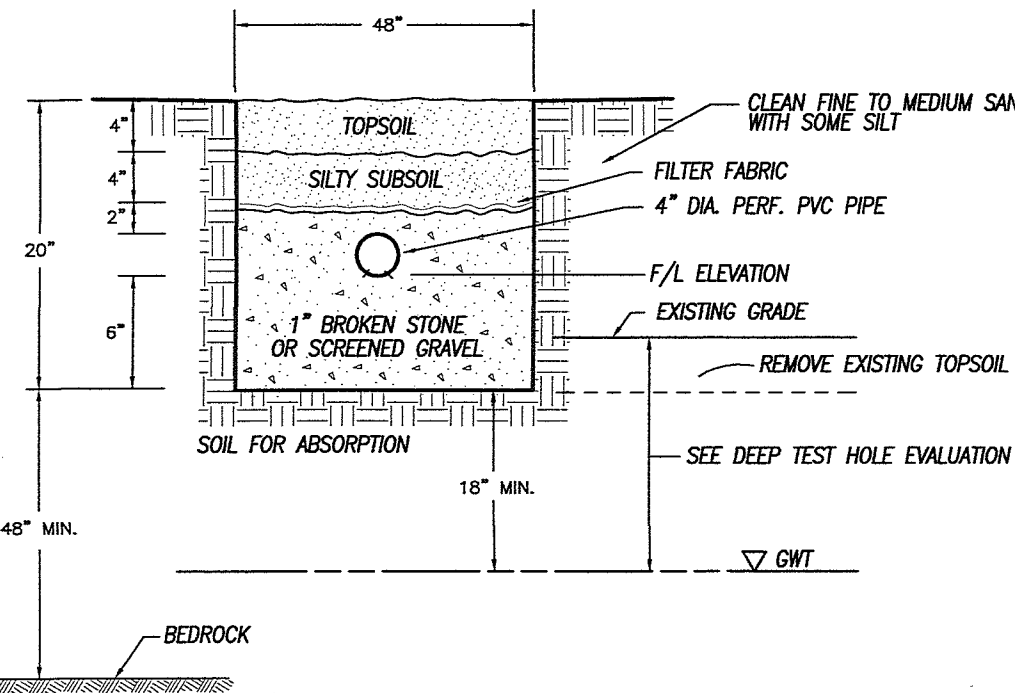
PROVIDE POSITIVE GRADE AWAY FROM MANHOLE COVER TO PREVENT GROUNDWATER FROM ENTERING CHAMBER



CROSS SECTION

1000 GALLON
2 COMPARTMENT
SEPTIC TANK

NOT TO SCALE



TYPICAL LEACHING
TRENCH SECTION

NOT TO SCALE

DETAIL SHEET
PROPOSED SITE PLAN
PREPARED FOR

ALLAN RAWSON &
KATHLEEN RAWSON

19 BROOKSIDE LANDING
PUTNAM, CONNECTICUT

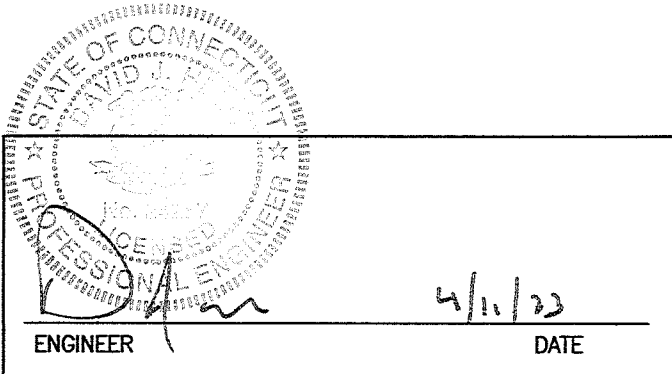
Provost & Rovero, Inc.

Civil Engineering • Surveying • Site Planning
Structural • Mechanical • Architectural Engineering

57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 230-0856 • FAX: (860) 230-0860
info@prorovinc.com
www.prorovinc.com

REVISIONS	
DATE	DESCRIPTION

DATE: 3/6/2023	DRAWN: DJH
SCALE: AS SHOWN	DESIGN: DJH
SHEET: 2 OF 2	CHK BY: ---
DWG. No: Client File	JOB No: 223031





INLAND WETLAND COMMISSION

APPENDIX A

APPLICATION FOR PERMIT

This application is for the use of inland wetlands and water courses.

The meetings are held on the second Wednesday of every month at 7:00pm in the Town Hall. If an on-site inspection is canceled due to inclement weather, the applicant is asked to call the office at 963-6803 30 minutes before the scheduled inspection to see if or when the inspection will be held.

Name of Applicant JSC Management Group

Applicant's Address 51 Providence Pike Putnam, CT 06260

Phone # (585) 735-7198

Owner of Land JSC Management Group

Owner's Address 51 Providence Pike Putnam, CT 06260

Location and description of proposed activity: Tree cutting along the southern bank of Little Dam
Tavern Brook. This is an after-the-fact permit for a Notice of Wetlands Violation issued on October 20, 2021.

Activity & Purpose Code

Please **CHECK** one in each column that best describes the activity proposed.

<u>Code</u>	<u>Activity Type</u>	<u>Code</u>	<u>Activity Purpose</u>
☐	1 Filling	☐	A Residential Improvement by homeowner
☐	2 Excavation	☐	B New residential development - single family
☐	3 Land Clearing	☐	C New residential development - multi- family/condo
☐	4 Stream Channel	☒	D Commercial/Industrial Uses
☐	5 Stream Stabilization	☐	E Municipal Improvements
☐	6 Stream Clearance	☐	F Utility Company Improvements
☐	7 Culverting	☐	G Agriculture, Forestry or Conservation
☐	8 Und. Grd. Util.	☐	H Wetland Creation/Restoration
☐	9 Roadway Construction	☐	I Storm Water/Flood Control
☐	10 Drainage Improvements	☐	J Erosion/Sediment Control
☐	11 Pond Dredge/Dam Construction	☐	K Recreation/Boating/Navigation
☒	12 Activity Buffer/Set Back Area	☐	L Routine Maintenance
☐	13 Other: Please describe: _____		

INLAND WETLAND COMMISSION

APPENDIX A *Continued*

Project Name (if applicable) 51 Providence Pike Burger King After-the-Fact Permit

Estimate of Linear Footage affecting Wetlands N/A

Affected number of acres in which Wetlands are part of
the impacted area for Multi-Family, Condos and
Commercial Development N/A

TO BE COMPLETED BY THE COMMISSION

Application Number 2023-04 Date of Receipt _____

Application Approved (date) _____

Conditions of approval if applicable _____

Application Denied (date) _____

Reason(s) for Denial _____

Signature of Chairman or Secretary of Commission

Date

INLAND WETLAND COMMISSION

APPENDIX A *Continued*

Application Procedure

1. Applicant will have a map showing the property boundaries, any wetlands on the property, proposed buildings, septic area, drainage if applicable and the dimension between these areas in scale 1" - 200' or less
2. Applicant must provide an approximate estimate of the linear footage of the wetlands that are affected by said proposal. This is for multi-family, condominiums or commercial development. Contact with the Zoning Official may clarify the nature of your project
3. Applicant must provide an approximate estimate of the number of acres that are affected by said proposal dealing with multi-family, condominiums and commercial development in which wetlands are part of that impacted area within the watershed.
4. Applicant will supply a copy of the soil scientist report with the application to the Wetlands Commission to be reviewed at the meeting by the Commission.
5. Applicant will have the soil scientist number the wetland flags and record the numbers of the flags on the site plan according to their location in the field. The location on the site map must match the field location.
6. If the applicant's estimates are not accurate, payment of the correct amount must be made before the Wetlands final approval of the application.
7. And any other information deemed necessary by the Commission.

Fee Schedule

1.	Permitted and non-regulated	\$40.00
2.	One lot regulated	\$40.00
3.	Regulated Area	
	Two (2) - Ten (10) lots	\$100.00
	Ten (10) - Twenty (20) lots	\$200.00
	Over Twenty (20+) lots	\$300.00
4.	Multi-Family/Condominium Regulated area	
	Zero (0) to Five (5) Acres	\$50.00
	Per linear foot of wetlands additional	\$0.35
	Over Five (5) acres	\$100.00
	Per linear foot of wetlands additional	\$0.35
5.	Commercial	
	Zero (0) to Five (5) Acres	\$100.00
	Per linear foot of wetlands additional	\$0.50
	Over Five (5) acres	\$300.00
	Per linear foot of wetlands additional	\$0.50

All applications must be submitted one week prior to the regularly scheduled monthly meeting.

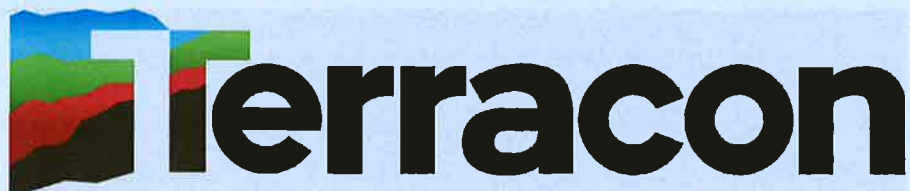
**AFTER-THE-FACT
INLAND WETLANDS PERMIT**

**TOWN OF PUTNAM, WINDHAM COUNTY,
CONNECTICUT**



**PREPARED FOR
JSC MANAGEMENT INC.**

PREPARED BY



APRIL 2023

J2217063

April 18, 2023

Town of Putnam Inland Wetlands Agency
126 Church Street
Putnam, CT 06260

Attn: Bruce Fitzback, Land Use Agent Town of Putnam
E: Bruce.Fitzback@putnamct.us

Re: 51 Providence Pike, Putnam, CT After-the-Fact Inland Wetlands Permit
Project Number J2217063

Dear Mr. Fitzback:

On behalf of JSC Management Group (JSC), Skelly and Loy, Inc., A Terracon Company is pleased to submit an After-the-Fact Inland Wetlands Permit to resolve a Notice of Violation issued to JSC on October 20, 2021 for the Burger King Property located at 51 Providence Pike Putnam, CT.

If you have any questions or require additional information, please contact me by phone at (717) 576-3877 or by e-mail at tjohnston@skellyloy.com.

Sincerely,
Skelly and Loy, Inc., A Terracon Company

Thomas Johnston

Thomas R. Johnston
Senior Scientist

Don Pomeroy

Donald L. Pomeroy, C.P.G.
Authorized Project Reviewer

Attachments:

cc: Steven Vann, President – JSC Management
File: 51 Providence Pike After-the-Fact Inland Wetlands Permit

**JSC MANAGEMENT GROUP
AFTER THE FACT INLAND WETLANDS PERMIT
PERMIT NARRATIVE
APRIL 12, 2023**

JSC Management Group (JSC) is seeking an Inland Wetlands Permit from the Town of Putnam (the Town) to resolve a Notice of Violation (NOV) issued to JSC. During the development of the Burger King located at 51 Providence Pike, Putnam, Connecticut owned and operated by JSC, 20 trees were cut within the 200-foot upland review area of Little Dam Tavern Brook without prior authorization from the Town (see Sheet 1). A NOV was issued to JSC on October 20, 2021. The upland area in question is located at approximately 41.92474, -71.87763. As part of the resolution to the NOV, JSC is applying for an Inland Wetlands Permit, identifying the trees that were cut, surveying the locations of the stumps, and planting 500 live stakes along the banks of Little Dam Tavern Brook.

Little Dam Tavern Brook is a perennial watercourse in the northern section of the property that flows east to west parallel to US Route 44 and is a tributary to the Quinebaug River. The section of the watercourse that flows through the project was previously lined with rock riprap to provide additional bank stabilization. Little Dam Tavern Brook has been designated by the Town as a "Green Belt Protection" area in the Future Land Use Plan (2005), extending the upland review area to 200-feet from the ordinary high-water mark. The Connecticut Department of Energy & Environmental Protection (CT DEEP) designated Little Dam Tavern Brook as a Water Quality Class A Stream, which is a potential drinking water supply, aquatic life and wildlife habitat, recreational use, agricultural/industrial supply, and other legitimate uses including navigation water supply for industry and agriculture. Little Dam Tavern Brook is not designated as a Class 1 Wild Trout Management Area by the CT DEEP, nor is it a trout-stocked stream. No other aquatic resources were identified within the project location.

During the construction of the Burger King restaurant, 20 trees were removed to provide additional visibility of the restaurant from US Route 44. These trees were located within the 200-foot upland review area of Little Dam Tavern Brook, and their removal is considered a regulated activity as defined by the Town of Putnam Inland Wetlands and Watercourses Regulations Section 4.3, dated June 14, 2007. As part

of the resolution of the NOV, the stumps of the removed trees were identified on December 16, 2021, and surveyed on December 30, 2022. As shown on Sheet 2, some trees were located within the right-of-way of Connecticut Route 44 and some were located on the property of Robert F. Guillot. JSC and Mr. Guillot have reached a preliminary settlement concerning the trees within his property.

Through coordination with the Town (December 17, 2021 Field meeting and March 31, 2023 Teams meeting), it was determined that while the trees did contribute to the stability of the banks of Little Dam Tavern Brook through root mass, their removal did not de-stabilize the banks as they are lined with rock riprap, and a detailed engineering analysis is not required. The only impact from the removal of the trees to the watercourse was the loss of shading and energy input. [Leaf material that falls into a stream is the primary energy source for the food chain for headwater streams like Little Dam Tavern Brook. Benthic invertebrates (or macroinvertebrates) digest the leaf material; predatory invertebrates and fish feed on the herbaceous invertebrates.]

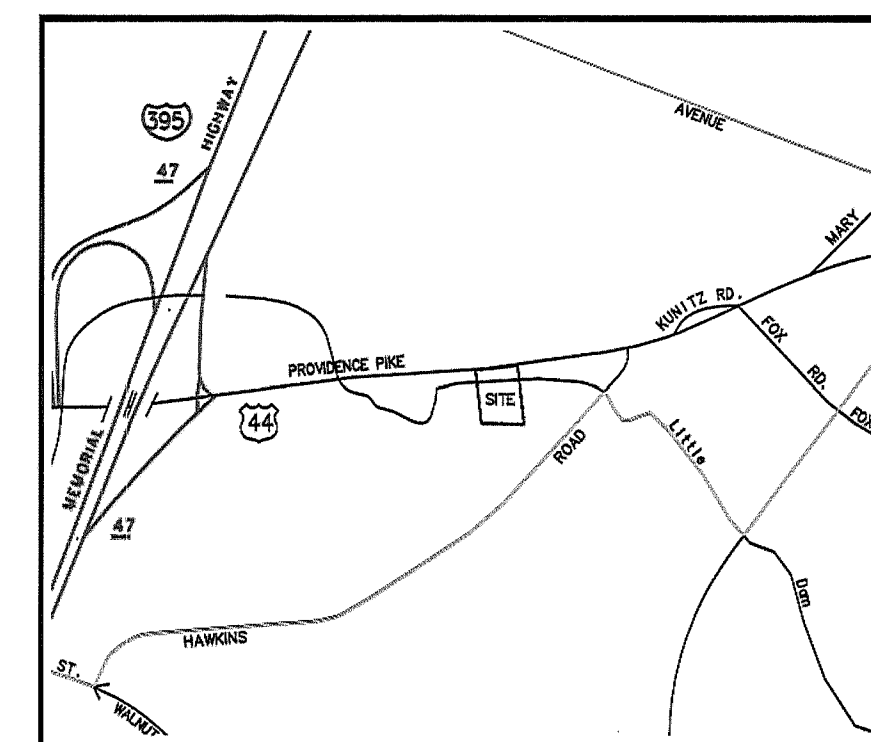
To restore shading and energy input and provide additional bank stability, JSC is proposing to plant native Live Stakes along the banks of Little Dam Tavern Brook. Live Stakes are freshly cut stem sections of native species that are treated with a rooting powder and driven into place with a mallet. Live Stakes are preferred as they can be planted without digging, which could potentially compromise the bank stability. Live Stakes have a high survival rate and grow quickly. The restoration area (see Sheet 2) will be planted with 500 2-to-3-foot height Live Stakes installed within the restoration area at suitable locations along the Little Dam Tavern Brook. Suitable locations will include specific locations with adequate soil, sunlight, and vertical proximity to shallow groundwater adjacent to the Brook. Live State species will include an even mix of Willows (*Salix* species), Alders (*Alnus* species) and Dogwoods (*Cornus* species).

JSC will inspect the restoration zone 1 year after the live stakes are planted to ensure that the plantings are successful. If the survival rate of the live stakes is below 50%, JSC will coordinate with the Town to determine the best course of action to bring the restoration zone into an acceptable condition. A 50% survival rate will ensure that at least 250 native shrubs have survived within the restoration area.

Other than the planting of large containerized trees, no other alternatives were evaluated to resolve the NOV. Planting larger trees along the banks of Little Dam Tavern Brook would require digging with

machinery and potentially destabilizing banks and further polluting the watercourse. The installation of Live States requires no digging to plant and grow quickly.

There are no other impacts to regulated waters such as wetlands or the ordinary high-water mark of Little Dam. JSC Management is familiar with all the information in this permit application and is aware of the penalties for obtaining a permit through deception or through inaccurate/misleading information. JSC authorizes members and agents of the Town to inspect the subject land at reasonable times during the pendency of the application and for the life of the permit.



Location Map

SCALE
1" = 1000 FT

Notes

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

- This Survey conforms to a Class "A-2" Horizontal Accuracy
- Survey Type: Existing Conditions Survey
- Boundary Determination: Resurvey
- Intent: Location of stumps along road

2. Parcel shown as Lot 140, on Assessors Tax Map 26 of the Putnam Assessors Office

MAP REFERENCES:

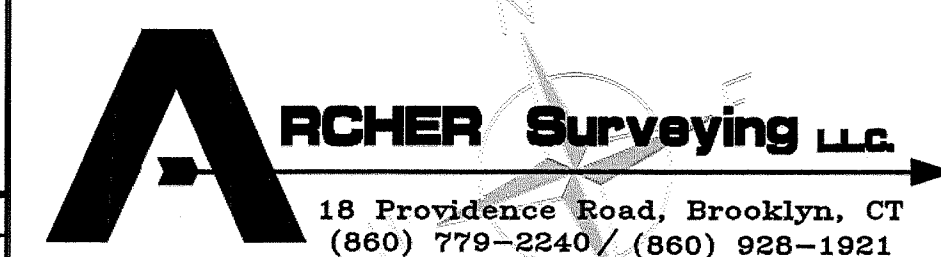
1. ALTA/NSPS Land Title Survey, Plaza Street Fund 122, LLC, Lot #1-I, #51 Providence Pike (Route #44), Windham County, Town of Putnam, Connecticut, Date: Nov. 24, 2021, Scale: 1"=20', Prepared by: KNP Associates Surveying-Engineering-Site Planning

SHEET #1 GENERAL SITE PLAN

Perimeter Survey

Prepared For:
JSC Putnam Land LLC
#51 Providence Pike (Route #44)
Putnam, Connecticut

DRAWING SCALE: 1"=20'



LOUIS J. SOJA, JR.
LAND SURVEYOR - LAND PLANNER

REVISIONS	
DATE	DESCRIPTION
01-19-23	Title Block

Sheet No. 1 OF 1 Project No. 1980 Date: December 30, 2022

LEGEND



PROPERTY LINE
IRON PIN
MONUMENT
PROPERTY POINT
UTILITY POLE
SIGN
LIGHT STANDARD

To My Knowledge and Belief this Map is substantially Correct as noted hereon.

Paul M. Archer LLS #10013 Date

PAVED PUBLIC ACCESS WAY

PROVIDENCE PIKE (ROUTE #44)

LITTLE DAM TAVERN BROOK

SEE SHEET 2 FOR ENLARGEMENT

Lot 140
Area: 62,700 +/- Sq.Ft.
1.44 +/- Acres

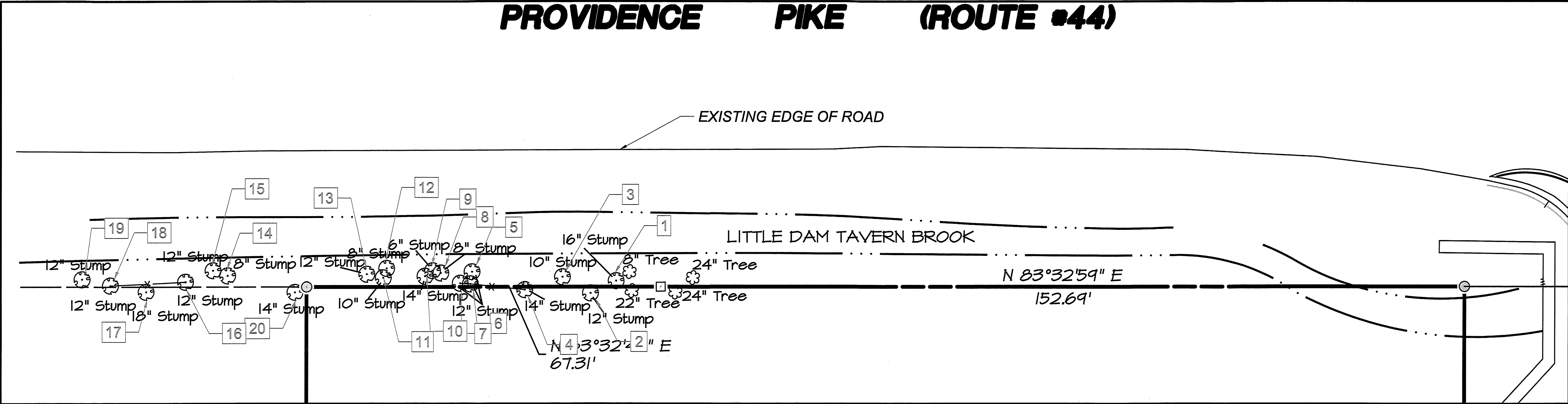
Existing Building
"Burger King"

n/f
Robert J. Guillot

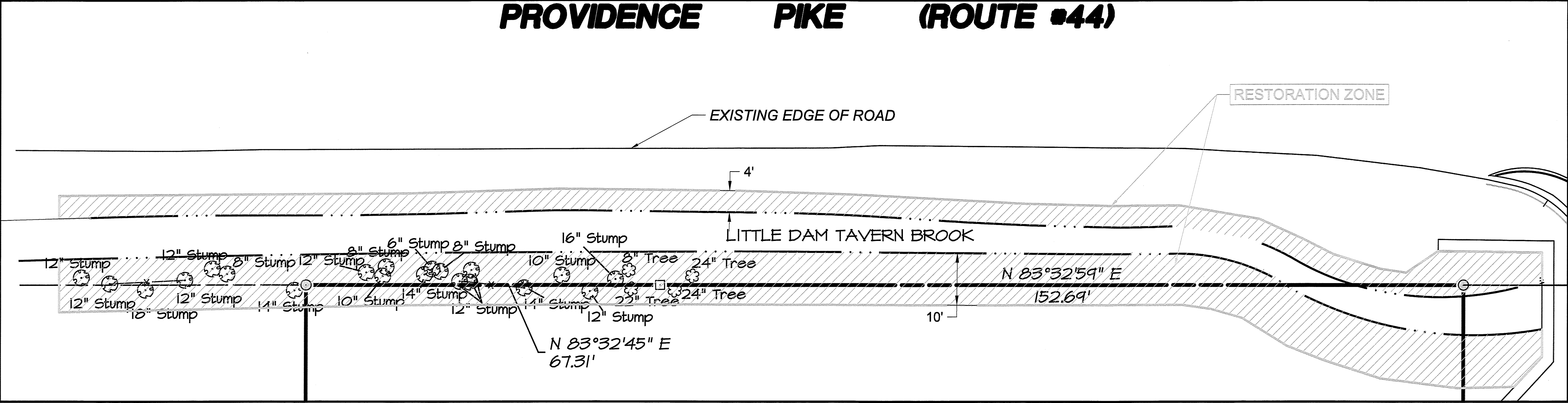
n/f
Robert J. Guillot

STUMP SCHEDULE

ID Number	Est. Stump Diameter	Species
1	16"	Maple
2	12"	Maple
3	10"	Maple
4	14"	Maple
5	12"	Maple
6	12"	Maple
7	12"	Maple
8	8"	Maple
9	6"	Maple
10	14"	Maple
11	10"	Elm
12	8"	Maple
13	12"	Elm
14	8"	Maple
15	12"	Maple
16	12"	Maple
17	18"	Maple
18	12"	Maple
19	12"	Maple
20	14"	Elm



TREE REMOVAL PLAN



RESTORATION PLAN

RESTORATION NOTE:
The restoration area will be planted with 500 2 to 3 foot height Live Stakes installed within the restoration area at suitable locations along the Little Dam Tavern Brook. Suitable locations will include specific locations with adequate soil, sunlight, and vertical proximity to shallow groundwater adjacent to the Brook. Live State species will include an even mix of Willows (Salix species), Alders (Alnus species) and Dogwoods (Cornus species).

SHEET #2

TREE REMOVAL AND RESTORATION PLAN

Putnam, Connecticut

SKELLYANDLOY

A Terracon Company

449 Eisenhower Boulevard, Suite 300, Harrisburg, Pennsylvania
Phone: (717) 232-0993, Fax: (717) 232-1799, e-mail: skellyloy@skellyloy.com

DATE: 3/30/2023

DRW BY: DJJ

SCALE: 1" = 10'

NO. J2217063

CHK BY: TRJ

DWG. NO. 2