GENERAL NOTES

- 1. BOUNDARY INFORMATION IS BASED UPON A MAP ENTITLED PROPERTY/ TOPOGRAPHIC SURVEY, SHEET 1 OF 1, CONFORMING TO HORIZONTAL ACCURACY CLASS A-2 AND TOPOGRAPHIC ACCURACY CLASS T-2, CONDUCTED BY: MILONE AND MACBROOM INC., PREPARED FOR THE SLATE SCHOOL, INC. AT A SCALE OF 1"=40', DATED: MAY 19, 2020.
- 2. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1-800-922-4455 or 811
- 3. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR LANDSCAPE ARCHITECT FOR RESOLUTION. 4. MILONE & MACBROOM, INC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY
- OTHERS. 5. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE
- BROUGHT TO THE ATTENTION OF THE ENGINEER OR LANDSCAPE ARCHITECT 6. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" TOPSOIL IN LAWN AREAS, AND BE SEEDED , AS SHOWN ON THE PLANS,
- UNLESS THE AREA IS A MULCHED PLANT BED WHICH SHALL RECEIVE A MINIMUM OF 12" OF TOPSOIL. 7. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
- 8. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO TOWN OF NORTH HAVEN REQUIREMENTS AND TO THE THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 817 AND ADDENDUMS
- 9. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER COMPANY, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
- 10. ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS USED DURING CONSTRUCTION SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.
- 11. COMPLIANCE WITH THE PERMIT CONDITIONS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITTEE
- 12. THE PROPERTY OWNER AND/OR HIS/HER AGENTS MUST MAINTAIN (REPAIR/REPLACE) WHEN NECESSARY THE SILTATION CONTROL MEASURES UNTIL ALL DEVELOPMENT ACTIVITY IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- 13. SOIL AND EROSION CONTROLS SHALL BE INSPECTED BY THE ZONING ENFORCEMENT OFFICER BEFORE COMMENCEMENT OF WORK
- 14. THE PROPERTY OWNER AND/OR HIS/HER AGENTS MUST MAINTAIN, (REPAIR/REPLACE) WHEN NECESSARY, THE SILTATION CONTROL UNTIL ALL DEVELOPMENT ACTIVITY IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED. 15. ANY PROPOSED SIGNAGE OR FENCING WILL REQUIRE THE FILING OF APPLICATIONS WITH THE ZONING ENFORCEMENT OFFICER
- PROJECT COMPLETION AN AS-BUILT SURVEY WILL BE PREPARED AND SUBMITTED FOR BOND RELEASE.

17. THE PROPERTY IS IN THE AQUIFER PROTECTION AREA.

CONSTRUCTION SEQUENCE

- PRIOR TO COMMENCEMENT OF WORK A PRECONSTRUCTION MEETING SHALL BE HELD WITH TOWN STAFF AND REPRESENTATIVES OF THE CONTRACTOR AND OWNER. AT THIS MEETING, ONE PERSON WILL BE PLACED IN CHARGE OF SEDIMENT AND EROSION CONTROL FOR THE ENTIRE SITE.
- 2. CONTRACTOR TO STAKE OUT LIMIT OF DISTURBANCE AND VEGETATION TO BE RETAINED. NO DISTURBANCE IS TO TAKE PLACE BEYOND THE LIMITS OF WORK SHOWN.
- 3. CONTRACTOR TO INSTALL SEDIMENT AND EROSION CONTROLS ALONG THE PERIMETER, AND STABILIZED CONSTRUCTION ENTRANCES. 4. CLEAR AND GRUB SITE, STOCKPILE TOPSOIL, AND DEMOLISH EXISTING STRUCTURES THAT ARE TO BE REMOVED. PLACE SEDIMENT
- FILTER FENCE AND HAYBALES AROUND ALL STOCKPILES.
- 5. CONTRACTOR TO INSTALL ALL EROSION & SEDIMENT CONTROLS PER THE SEDIMENT AND EROSION CONTROL PLAN.
- 6. INITIATE MASS EARTHWORK OPERATIONS AFTER ALL BASINS, BERMS, SWALES, SILT FENCE & HAYBALES ARE INSTALLED.
- 7. COMMENCE BUILDING FOUNDATION WORK. 8. SLOPES ARE TO BE ESTABLISHED AS SOON AS PRACTICAL BEFORE UTILITY INSTALLATION. STABILIZE ALL SLOPES IMMEDIATELY
- AFTER THEIR ESTABLISHMENT.
- 9. INSTALL UTILITIES, CURBS AND ROADS/ DRIVEWAYS.
- 10. COMPLETE BUILDING CONSTRUCTION.
- 11. PAVE PARKING LOT AND INSTALL SIDEWALKS AND SITE FEATURES.
- 12. ESTABLISH LAWNS, AND INSTALL LANDSCAPING.
- 13. OWNER MUST MAINTAIN (REPAIR/REPLACE WHEN NECESSARY) THE SILTATION CONTROL UNTIL ALL REGULATED ACTIVITY IN COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.

CONSTRUCTION NOTES

WATERS.

WATERS OR WETLANDS.

- TEMPORARY SEDIMENT BASINS SHALL BE INSPECTED 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. CLEAN THE SEDIMENT BASIN WHEN SEDIMENT ACCUMULATION EXCEEDS ONE HALF THE WET STORAGE CAPACITY OF THE BASIN OR WHEN THE DEPTH OF AVAILABLE POOL IS REDUCED TO 18 INCHES, WHICHEVER IS ACHIEVED FIRST.
- 2. SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED 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.
- 3. THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MODIFIED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER AND THE TOWN'S DESIGNATED REPRESENTATIVE AS NECESSITATED BY CHANGING SITE CONDITIONS
- 4. INSPECTION OF THE SITE FOR EROSION SHALL CONTINUE FOR A PERIOD OF THREE MONTHS AFTER COMPLETION WHEN RAINFALLS OF ONE INCH OR MORE OCCUR.
- 5. ALL DEWATERING WASTE WATERS SHALL BE DISCHARGED IN A MANNER WHICH MINIMIZES THE DISCOLORATION OF THE RECEIVING
- 6. THE SITE SHOULD BE KEPT CLEAN OF LOOSE DEBRIS, LITTER, AND BUILDING MATERIALS SUCH THAT NONE OF THE ABOVE ENTER
- 7. A COPY OF ALL PLANS AND REVISIONS, AND THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MAINTAINED ON-SITE AT ALL TIMES DURING CONSTRUCTION.

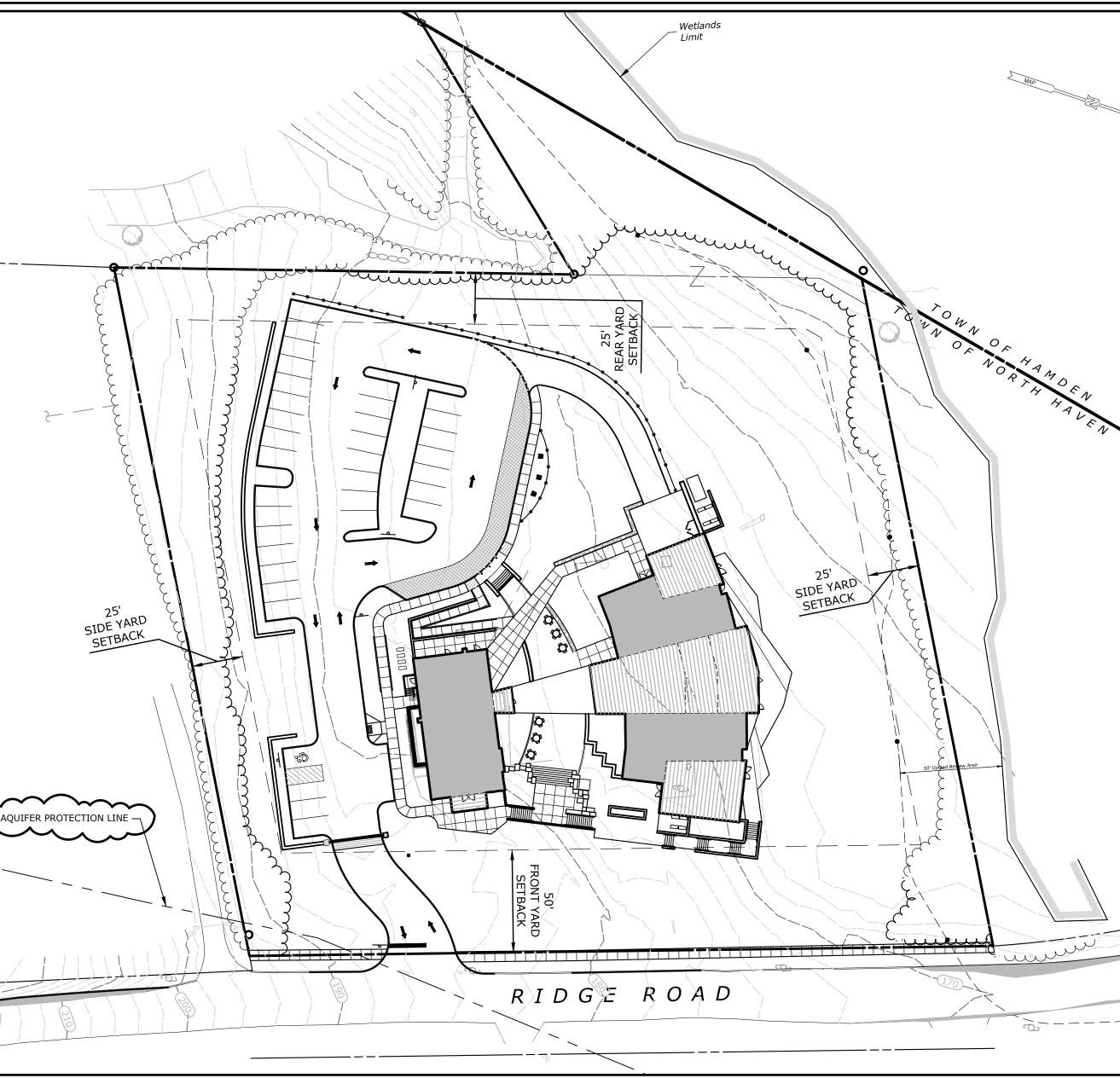
ZONING DATA TABLE			
		EXISTING ZONE	
	ZONE	R-40	
	MAP-BLOCK-LOT	NHA 970/002	
	REQUIREMENT	REQ'D/PERMITTED	PROVIDED
	MINIMUM LOT AREA	40,000 S.F.	129,185 S.F. (2.966 A.C.)
	LOT WIDTH	150 FT.	363.27 FT.
MINIMUM	FRONT YARD	50 FT.	50 FT.
	SIDE YARDS	25 FT.	25 FT.
	REAR YARD	25 FT.	25 FT.
	BUILDING HEIGHT	35 FT.	27 FT. (from average grade)
MAXIMUM	BUILDING COVERAGE	15%	10,440 S.F. (8%)

SLATE UPPER SCHOOL

5100 RIDGE ROAD NORTH HAVEN, CONNECTICUT

REGULATORY SUBMISSION

OCTOBER 27, 2020 (INLAND WETLANDS) REVISED: NOVEMBER 6, 2020 (PLANNING AND ZONING) **REVISED: FEBRUARY 17, 2021 REVISED: MARCH 25, 2021 (DOH COMMENTS)**

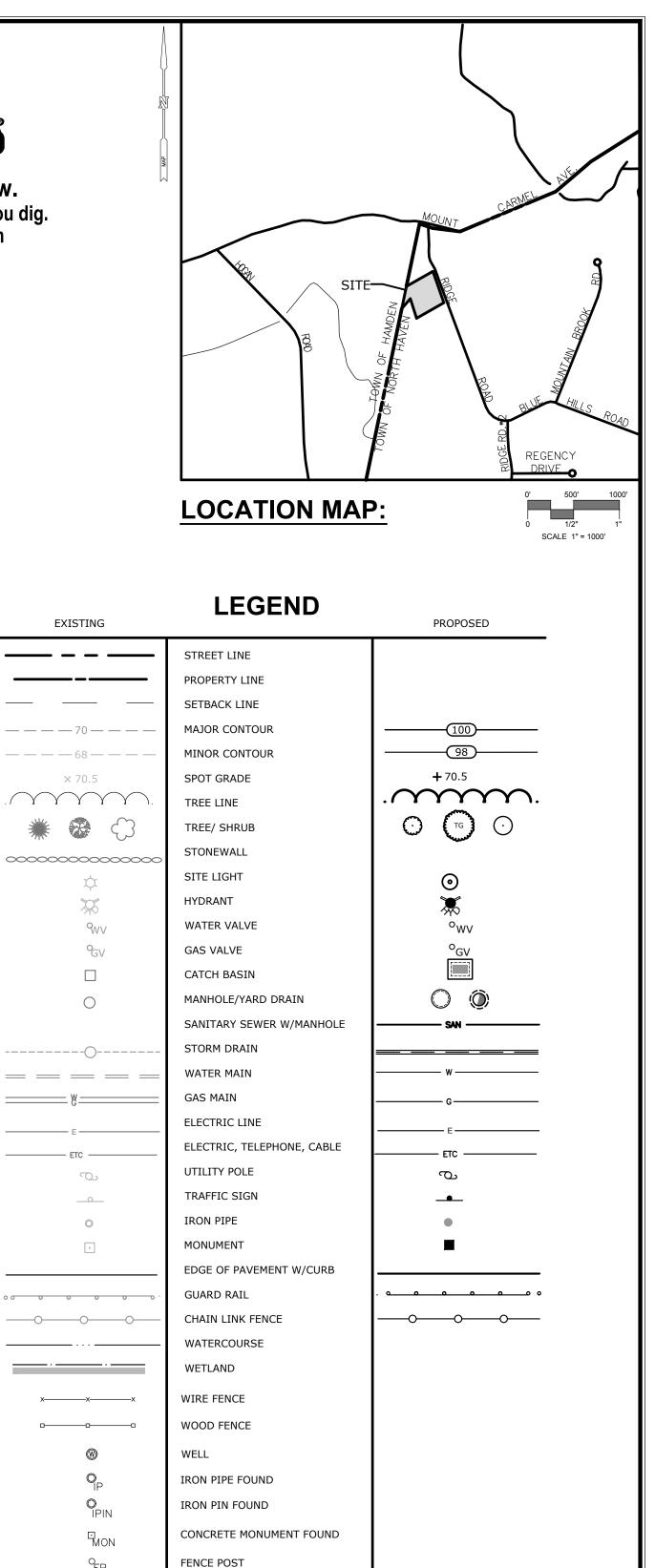


PROJECT SITE VICINITY MAP:

SCALE 1" = 60'







PREPARED FOR:

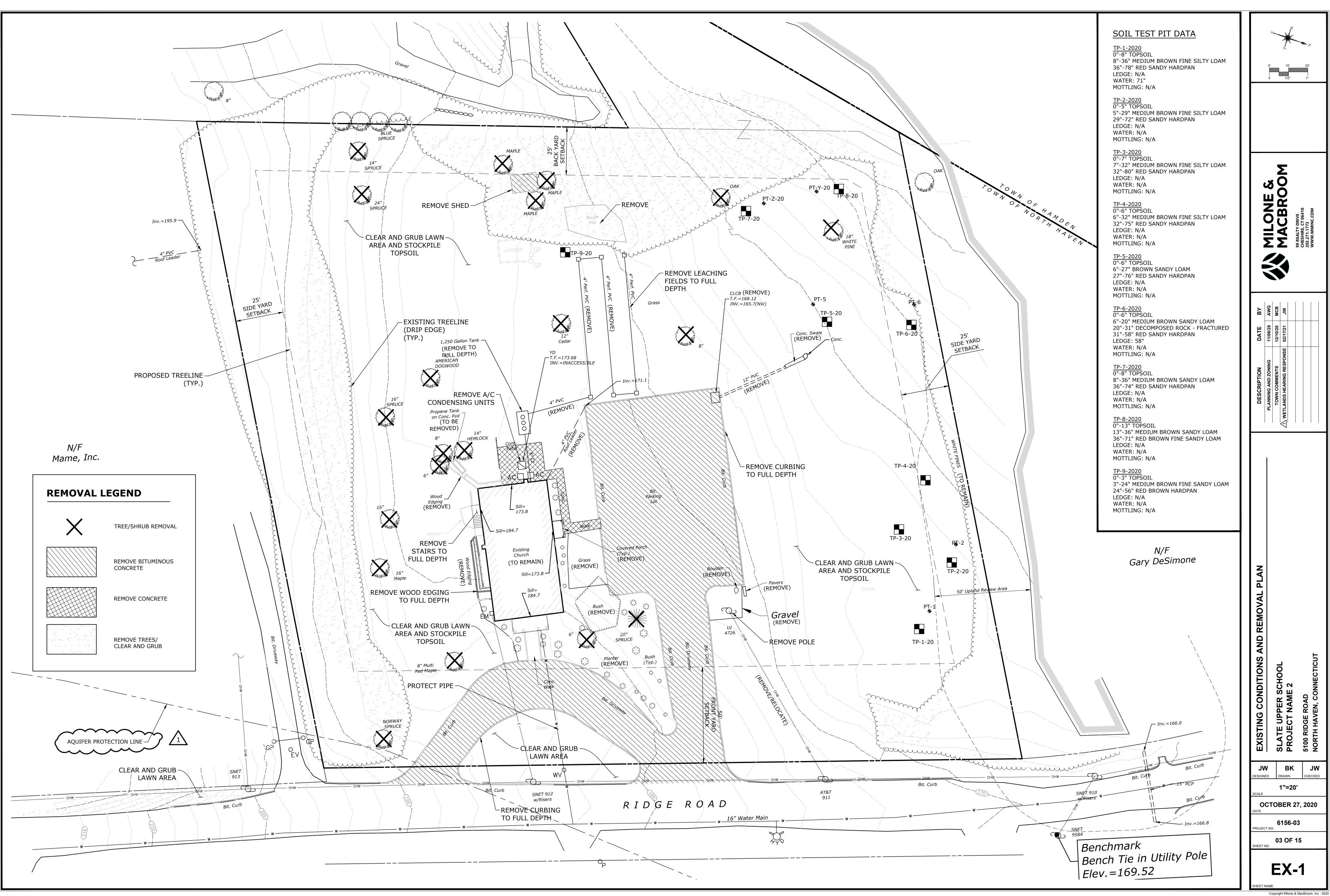
THE SLATE SCHOOL, INC. 124 MANSFIELD ROAD NORTH HAVEN, CT 06473

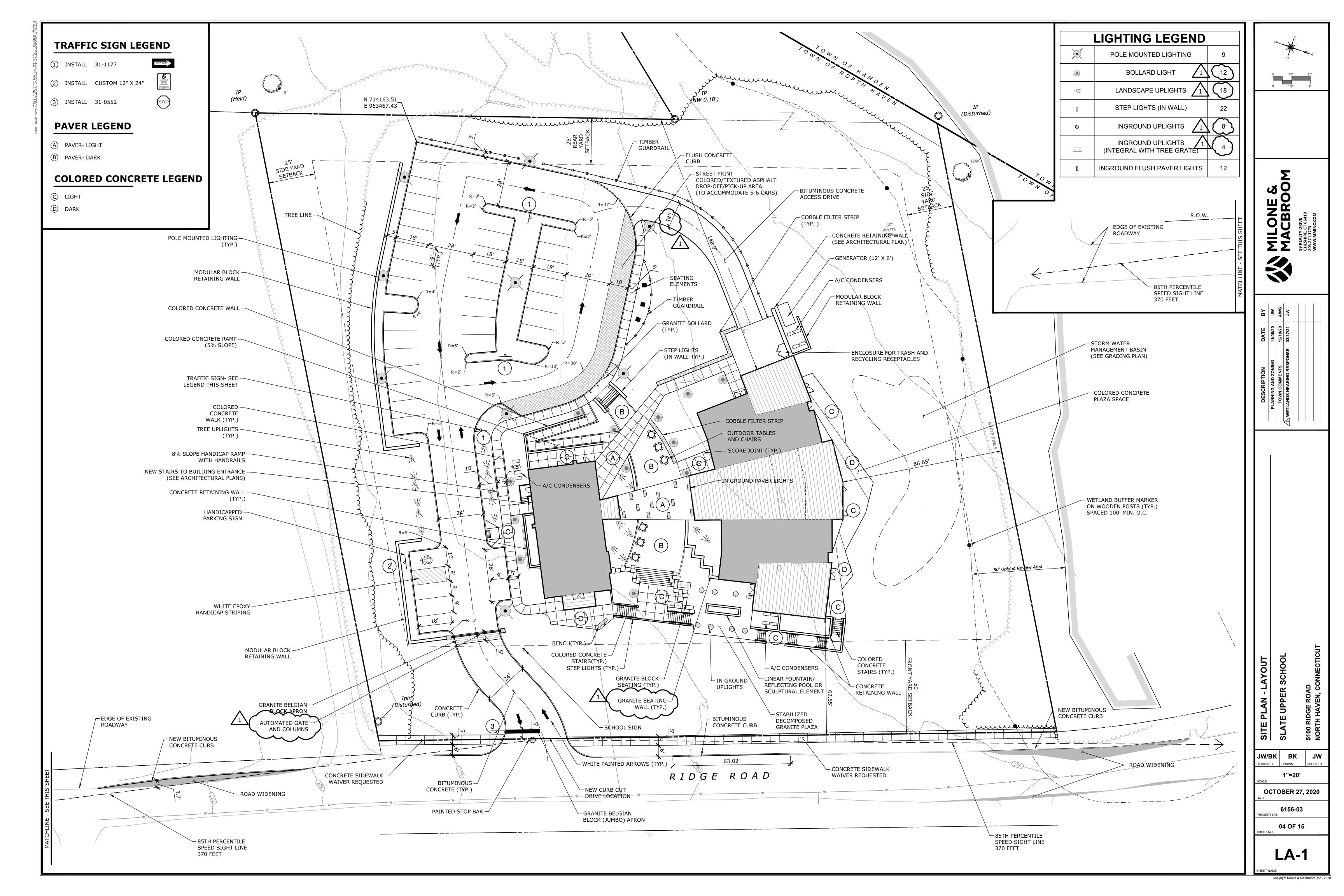
LIST OF DRAWINGS

NO.	NAME	TITLE
01		TITLE SHEET
02	1 OF 1	PROPERTY/ TOPOGRAPHIC SURVEY
03	EX-1	EXISTING CONDITIONS AND REMOVALS PLAN
04	LA-1	SITE PLAN - LAYOUT
05	LS-1	SITE PLAN - LANDSCAPING
06	GR-1	SITE PLAN - GRADING
07	UT-1	SITE PLAN - UTILITIES
08	SS-1	SUBSURFACE SEWAGE DISPOSAL PLAN
09	SE-1	SEDIMENT AND EROSION CONTROL PLAN
10	SE-2	SEDIMENT AND EROSION CONTROL SPECIFICATIONS AND DETAILS
11	SD-1	SITE DETAILS
12	SD-2	SITE DETAILS
13	SD-3	SITE DETAILS
14	SD-4	SITE DETAILS
15	SD-5	SITE DETAILS

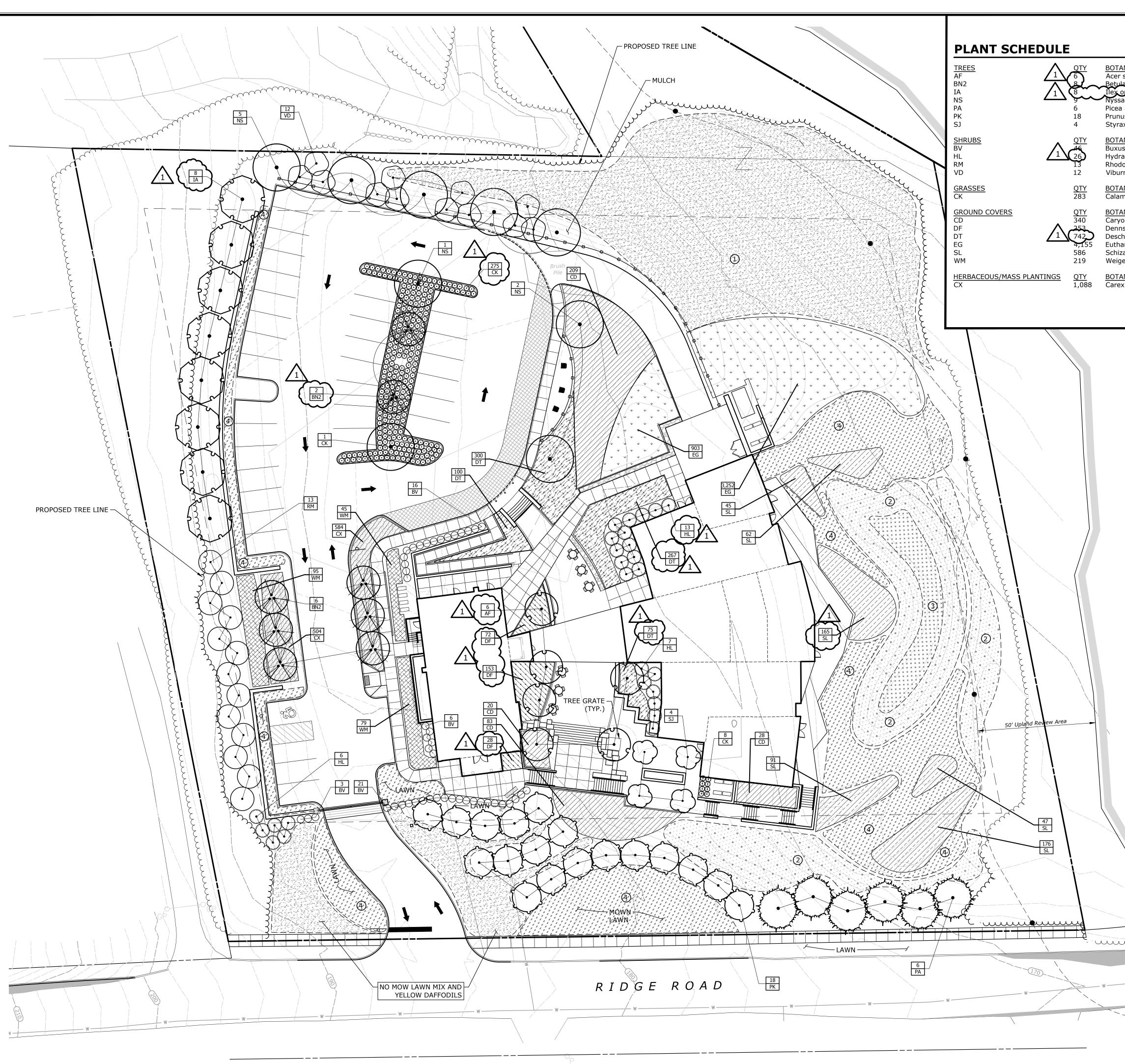
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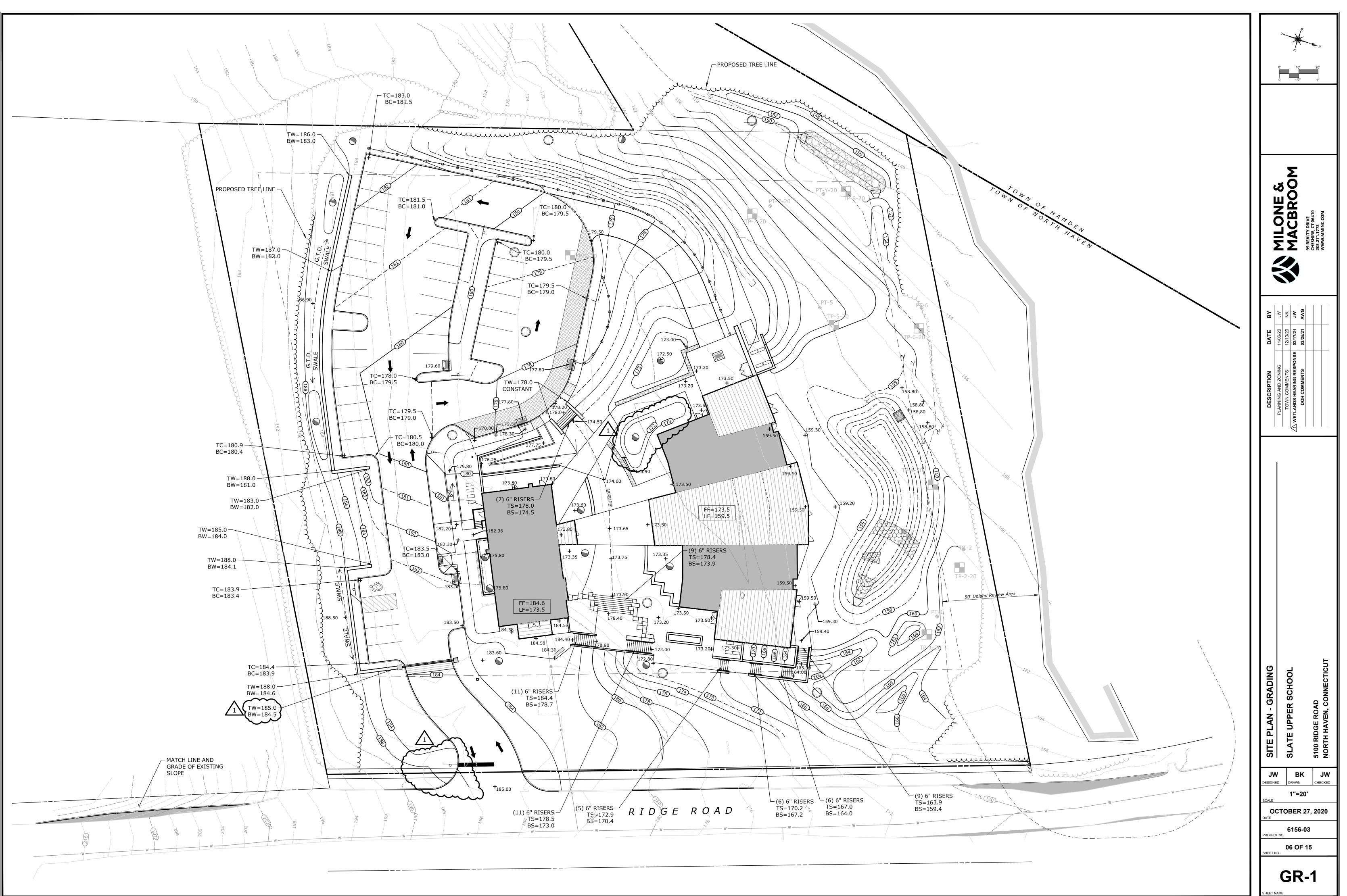




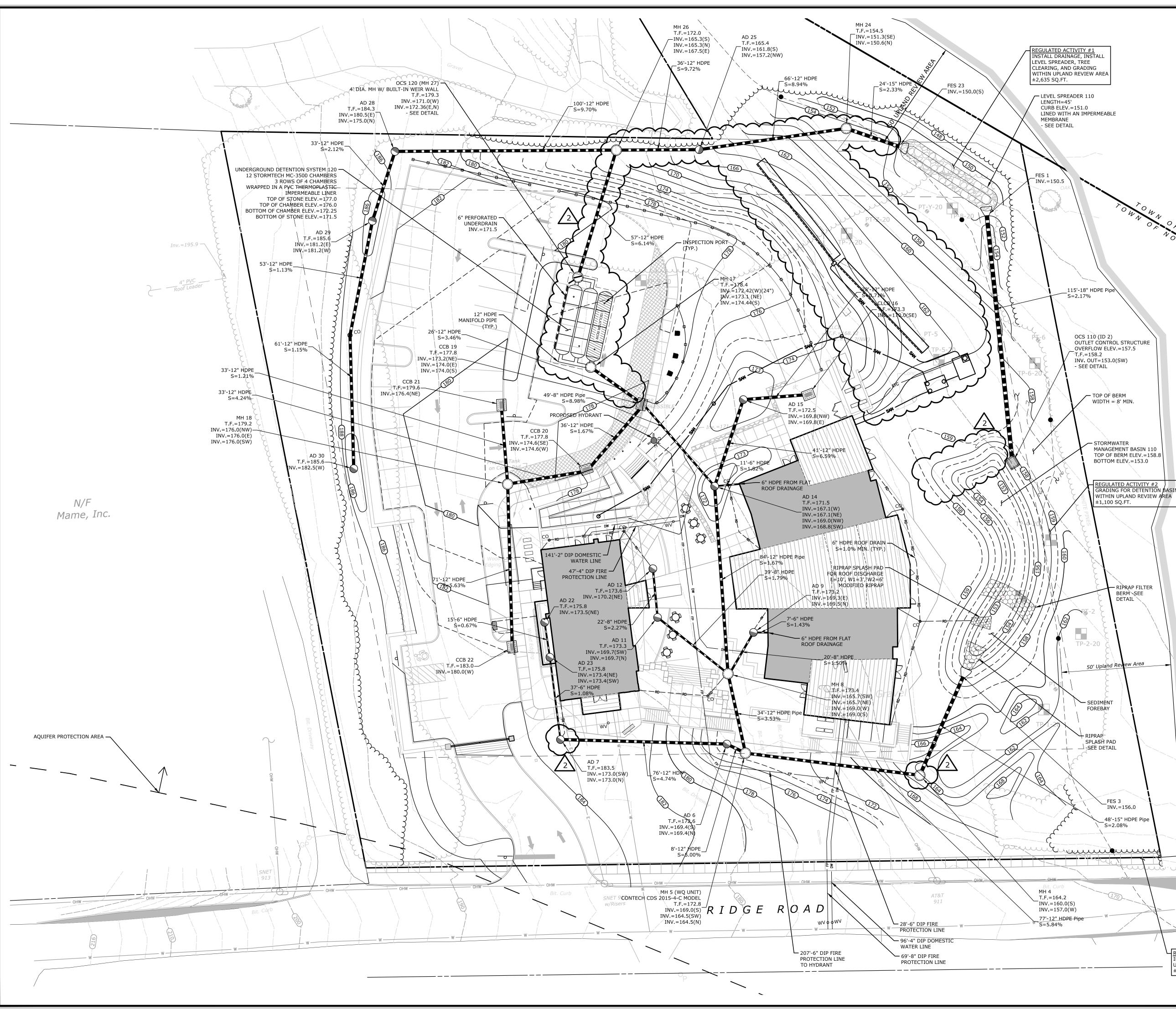


						S K	***
TANICAL NAME er shirasawanum ula nigra `Heritage`	COMMON NAME Fullmoon Maple Heritage River Birch American Holly	<u>SIZE</u> 3"-4" Cal. 8`/10` HT 7`/8` HT	<u>CONT.</u> B & B	<u>COMMENTS</u>		0' 10'	20'
opaca ssa sylvatica ea abies nus serrulata `Kwanzan` rax japonicus	Sour Gum Norway Spruce Flowering Cherry Japanese Snowbell	2"-2.5" Cal. 10`/12` HT. 2"-2.5" Cal. 24"-30" HT.	B & B B&B			0 1/2"	T
TANICAL NAME kus sempervirens `Variegata` drangea paniculata `Limelight` ododendron maximum urnum plicatum tomentosum `Mariesii`	<u>COMMON NAME</u> Variegated Common Boxwoo Limelight Hydrangea Rose Bay Mariesii Double File Viburnum	6`/7` HT. 	<u>CONT.</u> #3 #3 B&B #5	<u>COMMENTS</u> FULL & DENSE FULL & DENSE			
<u>TANICAL NAME</u> amagrostis acutiflora `Karl Foerster`	<u>COMMON NAME</u> Feather Reed Grass	<u>SIZE</u> #3	<u>CONT.</u>	<u>COMMENTS</u>			
<u>TANICAL NAME</u> yopteris x clandonensis `Dark Knight` nnstaedtia punctilobula schampsia cespitosa hamia graminifolia nizachyrium scoparium igela florida `Midnight Wine` TM	<u>COMMON NAME</u> Dark Knight Bluebeard Eastern Hay-scented Fern Tufted Hair Grass Grass Leafed Golden Rod Little Bluestem Grass Weigela	CONT seed #1 #1 plug seed #3					' DRIVE , CT 06410 773 1INC.COM
TANICAL NAME rex flacca `Blue Zinger`	<u>COMMON NAME</u> Blue Sedge	CONT #1				MAC	99 REALTY DRIVE CHESHIRE, CT 06410 203.271.1773 WWW.MMINC.COM
PLANTING NOT	THE LOCATION OF ALL UNDERGROU	JND					
TOPSOIL FOR ALL LAWN AREAS 12" MINIMUM DEPTH OF TOPSO 3. THE LANDSCAPE CONTRACTOR	SHALL PROVIDE A 6" MINIMUM DEPTH . WATER AS NECESSARY TO ESTABLIS IL. SHALL PROVIDE A 4" MIN. DEPTH OF S NTINGS. NO DYED MULCH SHALL BE A	SH TURF. ALL PLANTING				11/06/20 JW 12/10/20 AWG 02/17/21 JW	
AFTER PLANTING. 5. PLANT SPECIES MAY BE ADJUST SUBSTITUTIONS ARE SUBJECT NORTH HAVEN.	CT TO INSPECTION AND APPROVAL BY ED BASED ON AVAILABILITY AT TIME TO REVIEW AND APPROVAL BY THE LA	OF PLANTING. ALL PLAN NDSCAPE ARCHITECT A	NT MATERIAL ND THE TOW	'N OF	RIPTI	ANNING AND ZONING TOWN COMMENTS LANDS HEARING RESPONSE	
IN AN UNHEALTHY CONDITION AND SIZE OF PLANTS SPECIFIE 7. MAINTENANCE SHALL BEGIN IM LANDSCAPE ARCHITECT. MAINT GUYS, REPLACEMENT OF SICK (MPT TREATMENT OR REMOVAL AND RI BY THE LANDSCAPE ARCHITECT. ALL F D IN THE PLANT LIST. MEDIATELY AFTER PLANTING AND SH ENANCE SHALL INCLUDE WATERING, DR DEAD PLANTS, RESETTING PLANTS AUCERS, AND ALL OTHER CARE NEEDE	REPLACEMENTS SHALL E ALL CONTINUE UNTIL A MULCHING, TIGHTENIN TO PROPER GRADE OR	BE OF THE SA CCEPTANCE E G & REPLACII UPRIGHT (PL	ME KIND 3Y THE NG OF .UMB)	DESC	PLANNING TOWN C	
 PLACEMENT OF PLANTS ARE SU ARCHITECT. QUANTITIES SHAL ALL TREES SHALL BE SOURCED ALL SEED MIXES SHALL BE CER 	E STAKES AFTER ONE GROWING SEASO JBJECT TO FINAL VERIFICATION IN TH L NOT BE REDUCED. ANY ADJUSTMENT AND PROPAGATED BY NEW ENGLAND TIFIED BY THE GROWER TO NOT BE PI ROM AN ORGANIC FARM OR NURSERY.	IE FIELD BY THE DIRECT TS REQUIRE TOWN APPF OR MID-ATLANTIC NUI RODUCED THROUGH GE	ROVAL. RSERIES ENETIC ENGIN	NEERING.			
		SEED MIX NEW ENGLAND SHOWY Geed Rate: 23 LB/ACRE CUSTOM PANICUM VIRG Geed Rate: 23 LB/ACRE	WILDFLOWER	<u>MIX</u>			
	$(3) \begin{bmatrix} x & x & x & x & x \\ x & x & x & x & x \\ x & x &$	NEW ENGLAND EROSION DETENSION BASINS AND Seed Rate: 23 LB/ACRE AWN SEED IONATHAN GREEN BLAC CONSISTING OF:	<u>D MOIST SITE</u> K BEAUTY 'UI	<u>ES</u>			
	N T E F	DAKOTA TALL FESCUE MONTANA TALL FESCUE TOMBSTONE TALL FESCI BLUE-TASTIC KENTUCKY FRONTIER PERENNIAL R	UE ′ BLUEGRASS YEGRASS	30% 30% 30%	APING		Ľ
	S C F S T T N F T	OR APPROVED EQUIVAL SEED MIXTURES SHALL DTHER CULTIVARS OF P FESCUE AND KENTUCKY SUBSTITUTED FOR THE A THE APPROVAL OF THE ON NUMBER OF SPECIES AN PERCENTAGE BY WEIGH THE SAME AS SPECIFIED AS MANUFACTURED BY: NEW ENGLAND WETLA TEL. 413-548-8000	HAVE NO NO ERENNIAL RY BLUEGRASS ABOVE LISTE OWNER. HOV ID CULTIVARS T IN THE MIX O ABOVE.	EGRASS, TALL MAY BE D CULTIVARS WITH VEVER, THE SAME S WITH THEIR TURES MUST REMAIN	TE PLAN - LANDSCAPING	ATE UPPER SCHOOL	5100 RIDGE ROAD NORTH HAVEN, CONNECTICUT
					SITE	SL	
	- W						CHECKED
W					SCALE OC DATE	TOBER 2	27, 2020
					PROJECT		
					SHEET NO		
					SHEET NA		-1









STORM WATER MAINTENANCE PROGRAM

UPON SITE DEVELOPMENT, THERE WILL BE A NEED TO PERIODICALLY MAINTAIN STORMWATER SYSTEMS ON THE PROPERTY. THE STORMWATER SYSTEM CONSISTS OF PIPING AND CATCH BASINS.

IN ORDER TO ENSURE OPTIMAL PERFORMANCE OF THE SYSTEM, THE FOLLOWING STORMWATER MAINTENANCE PROGRAM HAS BEEN ESTABLISHED. THE PROPERTY OWNER WILL BE RESPONSIBLE FOR IMPLEMENTATION OF THIS PROGRAM. A LOG OF ALL INSPECTIONS, CLEANING AND REPAIRS SHALL BE MAINTAINED BY THE PROPERTY OWNER AND BE AVAILABLE FOR REVIEW.

A. CATCH BASINS/YARD DRAINS/AREA DRAINS

CATCH BASINS ARE DESIGNED WITH 2-FOOT MINIMUM DEPTH SUMPS FOR THE PURPOSE OF COLLECTING COARSE SEDIMENT. ALL CATCH BASINS SHOULD BE INSPECTED TWO TIMES PER YEAR, TYPICALLY WHEN THE SITE IS SWEPT IN THE SPRING AFTER WINTER SANDING AND IN THE FALL AFTER ALL THE LEAVES HAVE FALLEN. SITE SWEEPING SHALL BE PROVIDED BETWEEN APRIL 15 AND MAY 15 EACH SPRING.

SEDIMENT SHOULD BE REMOVED WHEN IT EXTENDS TO WITHIN 6 INCHES OF THE OUTLET PIPE INVERT OR NOT LESS THAN ONCE PER YEAR. CLEANOUT WITH A VACUUM TRUCK IS GENERALLY THE BEST AND MOST CONVENIENT METHOD. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH TOWN AND STATE REQUIREMENTS.

B. PAVEMENT SWEEPING

THE PARKING AREA AND ROADWAY SHALL BE SWEPT ANNUALLY. SWEEPING SHOULD OCCUR IN THE SPRING AFTER WINTER SANDING, BETWEEN APRIL 15 AND MAY 15. SALT ALTERNATIVES SHALL BE USED DURING WINTER MONTHS FOR DEICING.

STORMWATER BASIN

MOWING: THE UPPER STAGE, SIDE SLOPES, AND EMBANKMENT OF STORMWATER POND MUST BE MOWED AT LEAST ONCE PER YEAR TO DISCOURAGE WOODY GROWTH AND CONTROL WEEDS. AREAS THAT LIE WITHIN THE UPLAND REVIEW AREA ARE NOT TO BE MOWN BUT MUST BE MONITORED YEARLY FOR WOODY GROWTH. IF PRESENT, WOODY GROWTH TO BE REMOVED BY HAND.

INSPECTIONS: BASIN SHOULD BE INSPECTED TWICE PER YEAR(SPRING AND FALL) TO ENSURE THAT THE STRUCTURE OPERATES IN THE MANNER ORIGINALLY INTENDED. WHEN POSSIBLE, INSPECTIONS SHOULD BE CONDUCTED DURING WET WEATHER TO DETERMINE IF THE BASIN IS MEETING THE TARGETED DETENTION TIMES PER APPROVED DESIGN. IN PARTICULAR, THE OUTLET CONTROL DEVICE SHOULD BE REGULARLY INSPECTED FOR EVIDENCE OF CLOGGING OR, CONVERSELY, FOR TOO RAPID A RELEASE, AND THE FLOW PATH SHOULD BE CHECKED FOR EROSION PROBLEMS. OTHER PROBLEMS THAT SHOULD BE CHECKED FOR INCLUDE SUBSIDENCE, OUTLET WATER TURBIDITY, BANK/BED/OUTLET EROSION, CRACKING, OR TREE GROWTH ON THE EMBANKMENT; THE ACCUMULATION OF SEDIMENT AROUND THE OUTLET; THE ADEQUACY OF UPSTREAM/DOWNSTREAM CHANNEL EROSION CONTROL MEASURES; AND MODIFICATIONS TO THE BASIN OR ITS CONTRIBUTING WATERSHED THAT MAY INFLUENCE BASIN PERFORMANCE. INSPECTIONS SHOULD BE CARRIED OUT WITH DESIGN PLANS IN HAND.

DEBRIS AND LITTER REMOVAL: DEBRIS AND LITTER WILL ACCUMULATE NEAR THE OUTLET CONTROL DEVICEAND SHOULD BE REMOVED DURING REGULAR INSPECTION AND/OR MOWING OPERATIONS. PARTICULAR ATTENTION SHOULD BE PAID TO FLOATABLE DEBRIS THAT COULD EVENTUALLY CLOG THE CONTROL DEVICE OR RISER.

SEDIMENT REMOVAL: WHEN PROPERLY DESIGNED, DETENTION/WATER QUALITY BASINS WILL ACCUMULATE SEDIMENT OVER TIME. HOWEVER, MOST OF THE SEDIMENT WILL BE TRAPPED IN THE SEDIMENT CHAMBERS AND CATCH BASIN SUMP UNITS BEFORE REACHING THE BASIN. THE REMAINDER WILL ACCUMULATE IN THE STORMWATER POND. ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE BASIN EVERY 5 YEARS, AFTER ONE HALF (15"±) OF THE SEDIMENT STORAGE CAPACITY IN THE FOREBAY HAS BEEN FILLED, AFTER 4 INCHES OF SEDIMENT HAS ACCUMULATED IN THE MAIN PORTION OF THE BASIN, OR WHEN SIGNIFICANT ALGAL GROWTH IS OBSERVED. A PERMANENT MEASURING DEVICE SHALL BE INSTALLED IN THE MIDDLE OF THE FOREBAY AND IN THE MAIN PORTION OF THE BASIN. THE MARKER SHALL DELINEATE INCHES UP FROM THE BOTTOM OF THE BASIN SO THE DEPTH OF SEDIMENT CAN EASILY BE MEASURED. MORE FREQUENT SPOT CLEANOUTS MAY BE NEEDED AROUND THE OUTLET CONTROL DEVICE OR THE SEDIMENT FOREBAY.

SEDIMENT REMOVAL OPERATIONS ARE RELATIVELY SIMPLE. FRONT-END LOADERS, BACKHOES, OR VACUUM TRUCKS CAN BE USED TO REMOVE THE ACCUMULATED SEDIMENT FOLLOWED BY MANUAL REMOVAL OF SEDIMENT DEPOSITED AROUND THE OUTLET CONTROL DEVICE. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH TOWN AND STATE REQUIREMENTS. THE DISTURBED AREA SHOULD BE IMMEDIATELY SEEDED WITH APPROPRIATE GRASS SEED AND MULCHED WITH HAY AFTER REMOVAL OPERATIONS ARE COMPLETED TO PREVENT THE OUTLET CONTROL DEVICE FROM CLOGGING.

D. UNDERGROUND DETENTION SYSTEMS

UNDERGROUND DETENTION SYSTEMS SHALL BE INSPECTED QUARTERLY AND SEDIMENT SHALL BE REMOVED AS NEEDED TO ENSURE PROPER FUNCTIONING OF STRUCTURES. AREAS OF DISTURBANCE THAT MAY BE AS A RESULT OF CLEANING SHALL BE SEEDED AND PLANTED IN ACCORDANCE WITH THE ORIGINAL PLANTING PLAN. THESE STRUCTURES WILL BE MAINTAINED YEARLY, OR MORE FREQUENTLY AS REQUIRED. WASTE MATERIAL WILL BE PROPERLY DISPOSED OF OFF-SITE.

ISOLATOR ROW

THE ISOLATOR ROWS INTEGRATED TO THE STORMWATER CHAMBERS SYSTEMS SHOULD BE MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. AT A MINIMUM, THE MAINTENANCE SCHEDULE SHOULD INCLUDE THE FOLLOWING:

 THE ISOLATOR ROW UNIT SHALL BE COMPLETELY CLEANED OF ACCUMULATED DEBRIS AND SEDIMENTS AT THE COMPLETION OF CONSTRUCTION.
 THE ISOLATOR ROW SHALL BE INSPECTED EVERY 6 MONTHS FOR THE FIRST YEAR OF OPERATION.

3) FOR SUBSEQUENT YEARS, THE INSPECTION SHOULD BE ADJUSTED BASED UPON PREVIOUS OBSERVATION OF SEDIMENT DEPOSITION. AT A MINIMUM, THE ISOLATOR ROW SHALL BE INSPECTED ANNUALLY.

4) IF UPON VISUAL INSPECTION THE SEDIMENT DEPOSIT ALONG THE LENGTH OF THE ISOLATOR ROW EXCEEDS 3 INCHES, CLEANOUT SHALL BE PERFORMED.
5) MAINTENANCE IS ACCOMPLISHED WITH THE JETVAC PROCESS.

E. PROPRIETARY HYDRODYNAMIC SEPARATOR

BEFORE BEING DISCHARGED TO THE STORMWATE BASIN, STORMWATER RUNOFF FROM THE ROADWAY AND BUILDING WILL BE DIRECTED TO A HYDRODYNAMIC SEPARATOR. THIS STRUCTURE WILL REMOVE SUSPENDED SOLIDS, DEBRIS AND FLOATABLES CONSTITUENTS FROM STORMWATER. OIL, SCUM, AND SEDIMENT WILL EVENTUALLY ACCUMULATE AND CAN BE REMOVED THROUGH A MANHOLE LOCATED AT THE TOP OF THE SEPARATOR. THIS STRUCTURE WILL BE MAINTAINED YEARLY, OR MORE FREQUENTLY AS REQUIRED. THE UNIT SHOULD BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. WASTE MATERIAL WILL BE PROPERLY DISPOSED OF OFF THE SITE.

F. LAWN AND VEGETATED AREAS

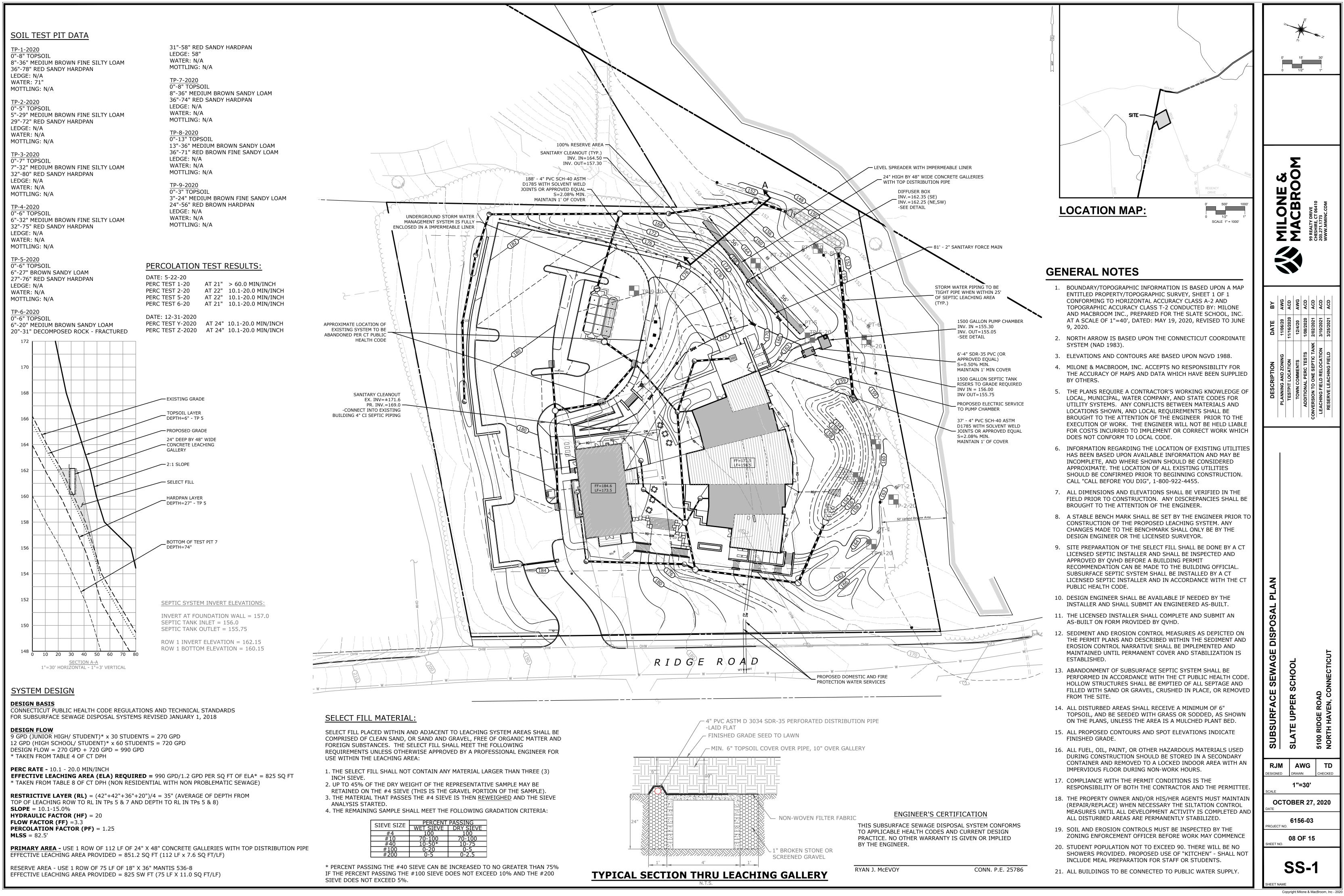
VEGETATED COVER SHALL BE MAINTAINED ON ALL EARTH SURFACES TO MINIMIZE SOIL EROSION. USE OF FERTILIZER SHOULD BE MINIMIZED AND APPLIED USING PRUDENT ORGANIC APPLICATION PROCESSES/METHODS. ROOF GUTTERS

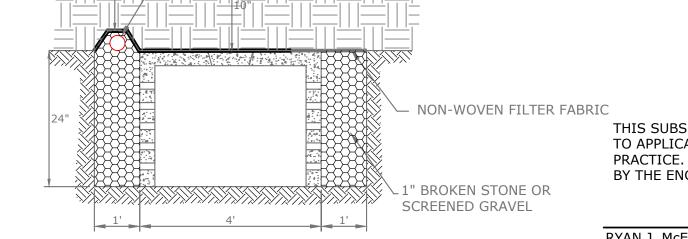
REMOVE ACCUMULATED DEBRIS AND INSPECT FOR CLOGGING AND/OR DAMAGE AT LEAST ONCE A YEAR, TYPICALLY IN THE FALL AFTER THE LEAVES HAVE FALLEN. ANY DAMAGE SHOULD BE REPAIRED AS REQUIRED.

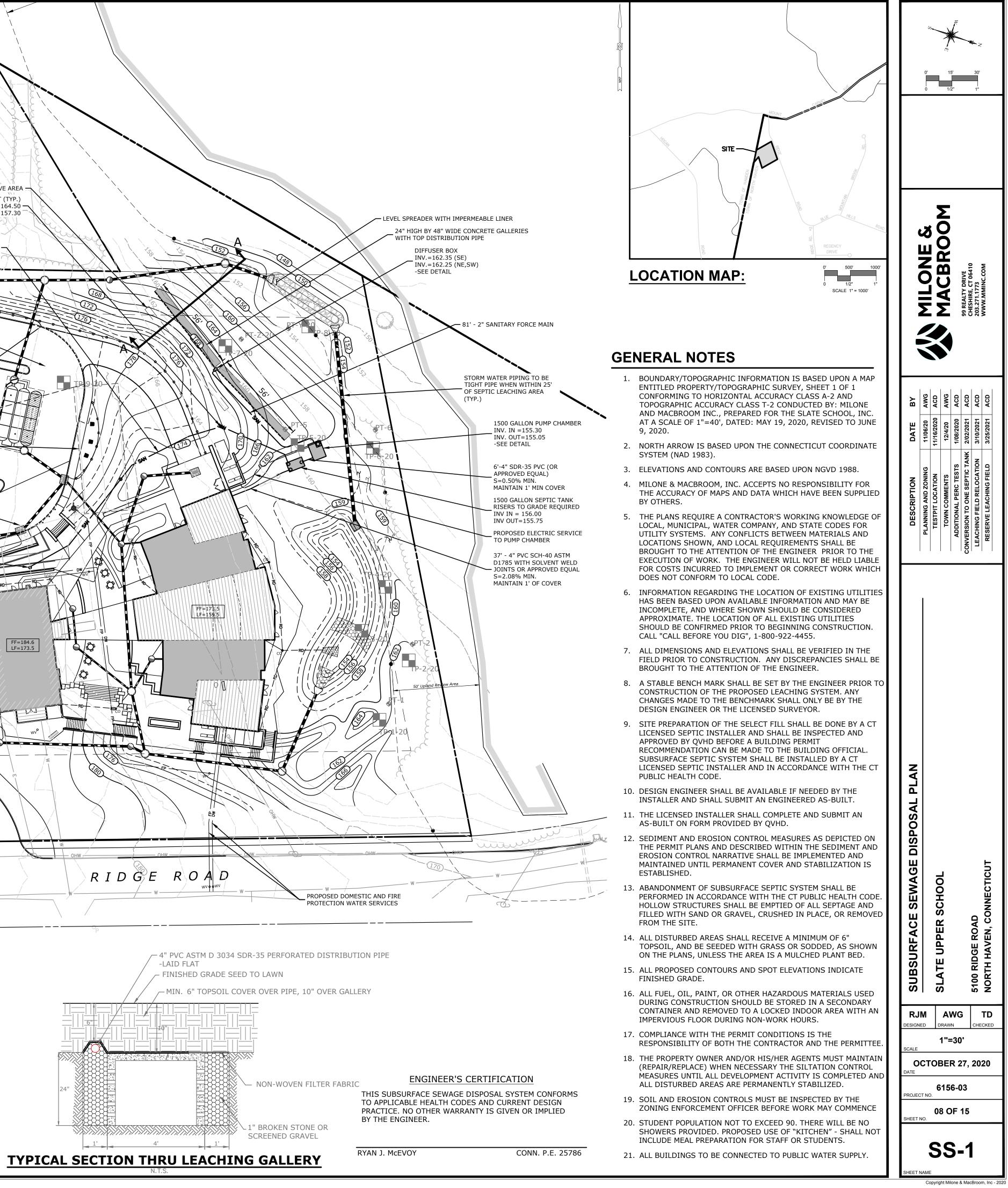
H. AFTER COMPLETION OF CONSTRUCTION THE PROPERTY OWNERS WILL ASSUME RESPONSIBILITY FOR OPERATION AND MAINTENANCE PLAN.

REGULATED ACTIVITY #3 INSTALL SIDEWALK WITHIN UPLAND REVIEW AREA ±160 SQ.FT.

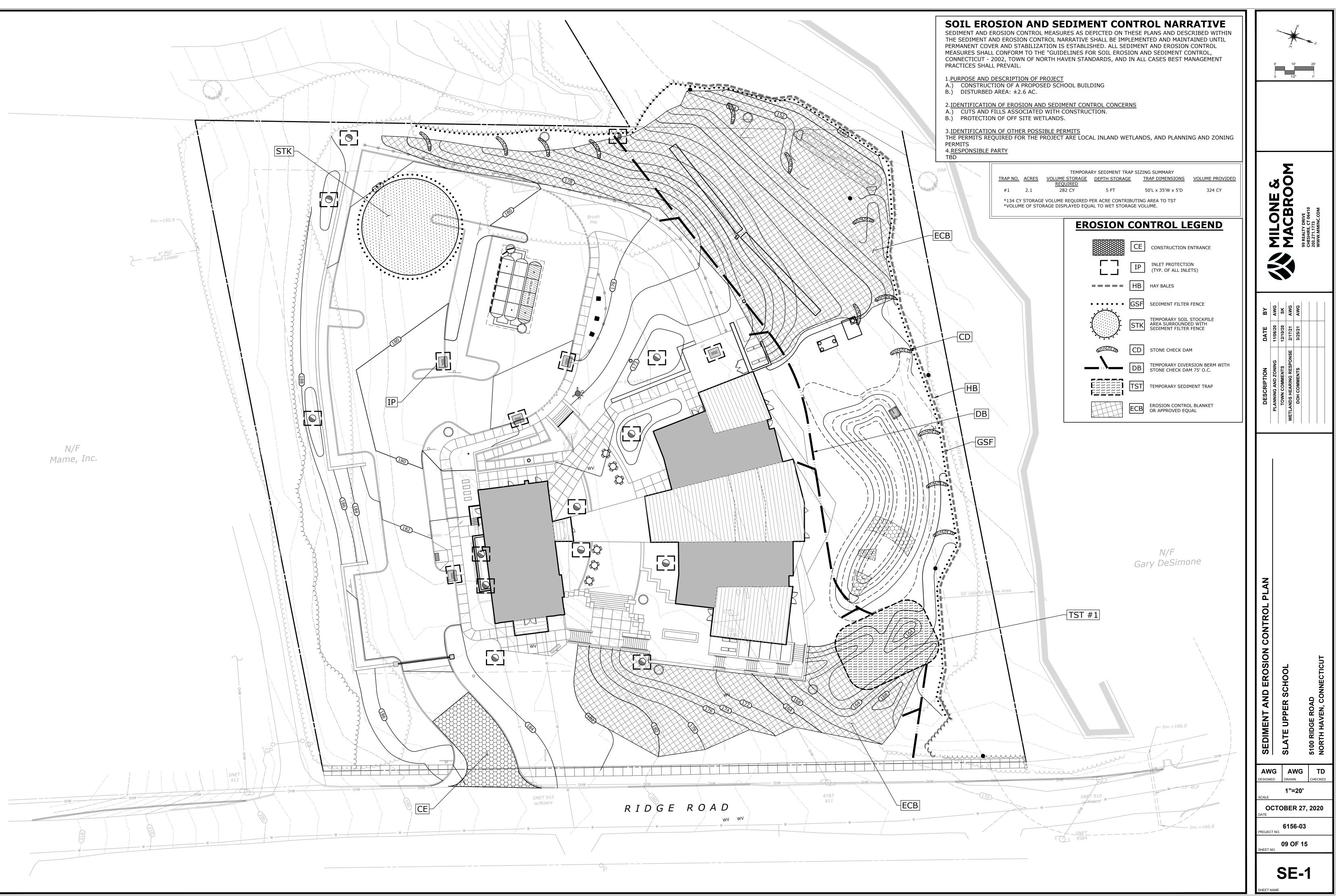
	0'		11		~*	20'		
			MACBROOM		99 REALTY DRIVE CHESHIRE CT 06410	203.271.1773	WWW.MMINC.COM	
BY	0 AWG	0 AWG	1 AWG	1 FAB	1 FAB			
DATE	11/06/20	12/10/20	2/04/21	VSE 2/17/21	3/25/21			
DESCRIPTION	PLANNING AND ZONING	TOWN COMMENTS	WATER LINE REVISIONS	METLANDS HEARING RESPONSE	DOH COMMENTS			
SITE PLAN - UTILITIES						5100 RIDGE ROAD	NORTH HAVEN, CONNECTICUT	
FA DESIGN			A\ RAW 1"=				TD	
SCALE O DATE	ст					20	20	
PROJEC	CT NC).	15 7 C					
SHEET	NO.				10			











SEDIMENT & EROSION CONTROL SPECIFICATIONS	TEMPORARY VEGETATIVE COVER	TEM
GENERAL:	GENERAL:	STR/ (TEM
THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.	1. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE SEDIMENT, AREAS WHERE FINAL GRADING HAS BEEN COMPLETED, AND AREAS WHERE THE ESTIMATED PERIOD OF BARE SOIL EXPOSURE IS LESS THAN 12 MONTHS. TEMPORARY	WOC ESTA
IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND	VECETATIVE COVED CHALL BE ADDITED TE ADEAC WILL NOT BE	1. SM EQ
CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION	SITE PREPARATION:	2. SE
METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS,	1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.	RA MU
WATERCOURSES, AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE.	2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.	3. AP
LAND GRADING	3. APPLY LIME ACCORDING TO SOIL TEST OR AT A RATE OF ONE (1) TON OF GROUND DOLOMITIC LIMESTONE PER ACRE (5 LBS. PER 100 SQ. FT.).	BR 4. CC
GENERAL:	4. APPLY FERTILIZER ACCORDING TO SOIL TEST OR AT THE RATE OF 300 LBS. OF 10-10 PER ACRE (7 LBS. PER 1,000 SQ. FT.) AND SECOND	W1 5. ML
 THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA: 	APPLICATION OF 200 LBS. OF 10-10-10- (5 LBS. PER 1,000 SQ. FT.) WHEN GRASS IS FOUR INCHES (4") TO SIX INCHES (6") HIGH. APPLY ONLY WHEN GRASS IS DRY.	TE SE
a.THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).	5. UNLESS HYDROSEEDED, WORK IN LIME AND FERITLIZER TO A DEPTH OF FOUR (4") INCHES USING A DISK OR ANY SUITABLE EQUIPMENT.	6. US NC
b.THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).	6. TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.	7. US CR CC
c.THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).	ESTABLISHMENT:	I
d.PROVISION SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.	 SELECT APPROPRIATE SPECIES FOR THE SITUATION. NOTE RATES AND SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW). 	1
e.EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH	2. APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.	
PROPERTY FROM EROSION, SLIDING, SETTLING, OR CRACKING. f.NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE	3. UNLESS HYDROSEEDED, COVER RYEGRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL USING SUITABLE EQUIPMENT.	:
PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS.	4. MULCH IMMEDIATELY AFTER SEEDING IF REQUIRED. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW.) APPLY STRAW OR HAY MULCH AND ANCHOR TO SLOPES GREATER THAN 3% OR WHERE	ſ
g.PRIOR TO ANY REGRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.	CONCENTRATED FLOW WILL OCCUR.	(
TOPSOILING	PERMANENT VEGETATIVE COVER	
GENERAL:	GENERAL:	
1. TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH, AND MAINTENANCE OF VEGETATION.	1. PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO	l
2. UPON ATTAINING FINAL SUBGRADES, SCARIFY SURFACE TO PROVIDE A GOOD BOND WITH TOPSOIL.	ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.	
REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS AND CONSTRUCTION DEBRIS.	SITE PREPARATION:	
4. APPLY LIME ACCORDING TO SOIL TEST OR AT THE RATE OF TWO (2) TONS	1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.	
PER ACRE.	2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.	
MATERIAL:	3. PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.	4
1. TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.	4. APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.	
2. TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.	5. APPLY FERTILIZER ACCORDING TO SOIL TEST AND AS SPECIFIED.	
3. TOPSOIL SHOULD BE RELATIVELY FREE OF SUBSOIL MATERIAL AND MUST BE FREE OF STONES (OVER 1" IN DIAMETER), LUMPS OF SOIL, ROOTS, TREE LIMBS, TRASH, OR CONSTRUCTION DEBRIS. IT SHOULD BE FREE OF ROOTS OR RHIZOMES SUCH AS THISTLE, NUTGRASS, AND QUACKGRASS.	VEGETATIVE COVER SELECTION & MULCHING	:
 AN ORGANIC MATTER CONTENT OF SIX PERCENT (6%) MINIMUM, TWENTY PERCENT (20%) MAXIMUM IS REQUIRED. AVOID LIGHT COLORED SUBSOIL MATERIAL. 	TEMPORARY VEGETATIVE COVER: PERENNIAL RYEGRASS 3 LBS./1,000 SQ.FT.	:
 SOLUBLE SALT CONTENT OF OVER 500 PARTS PER MILLION (PPM) IS LESS SUITABLE. AVOID TIDAL MARSH SOILS BECAUSE OF HIGH SALT CONTENT AND SULFUR ACIDITY. 	(IOLUIUM PERENNE) PERMANENT VEGETATIVE COVER: SEE LANDSCAPING PLAN	
6. THE pH SHOULD BE MORE THAN 6.0. IF LESS, ADD LIME TO INCREASE pH TO AN ACCEPTABLE LEVEL.		4
APPLICATION:	FENCE POST (TYPICAL)	!
1. AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.		
2. SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST SIX INCHES (6"), OR TO THE DEPTH SHOWN ON THE LANDSCAPING PLANS.	AMOCO PROPEX SILT STOP SEDIMENT CONTROL FABRIC OR APPROVED EQUAL (GEOTEXTILE)	
	FLOW FLOW	
GRADE		~
	NOTES:	

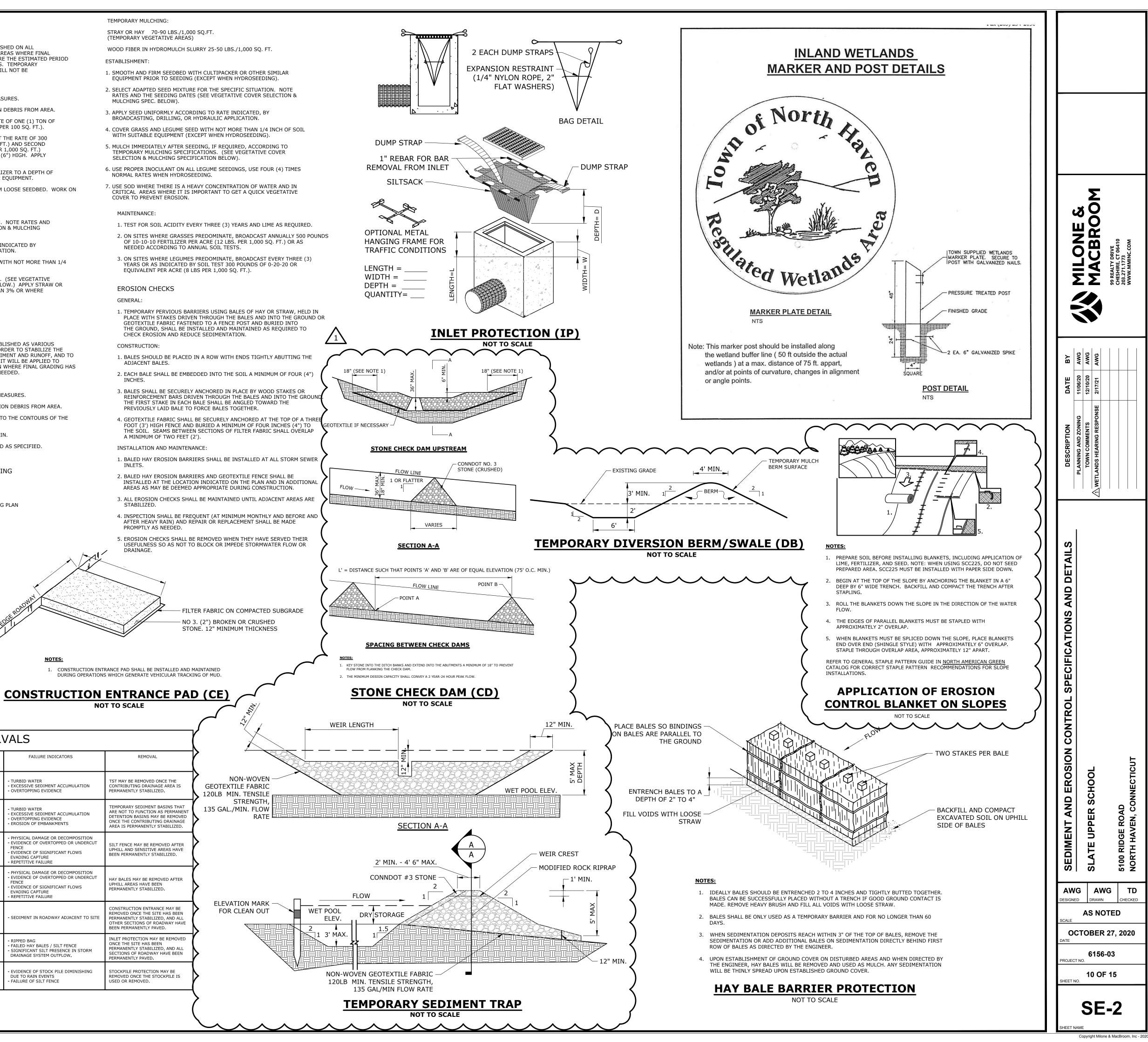
BURY END OF GEOTEXTILE MIN. 6" INTO SOIL

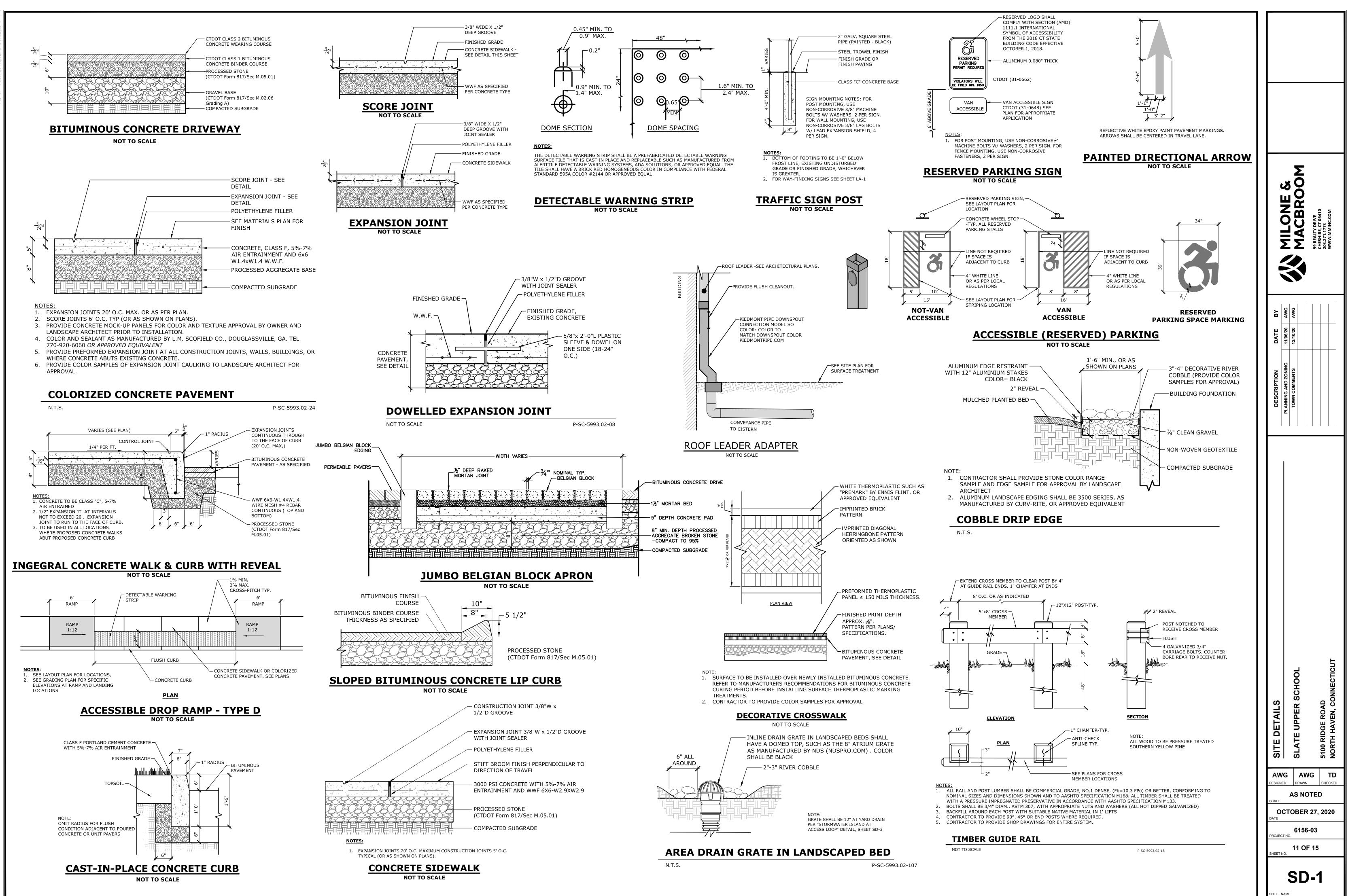
NOTES

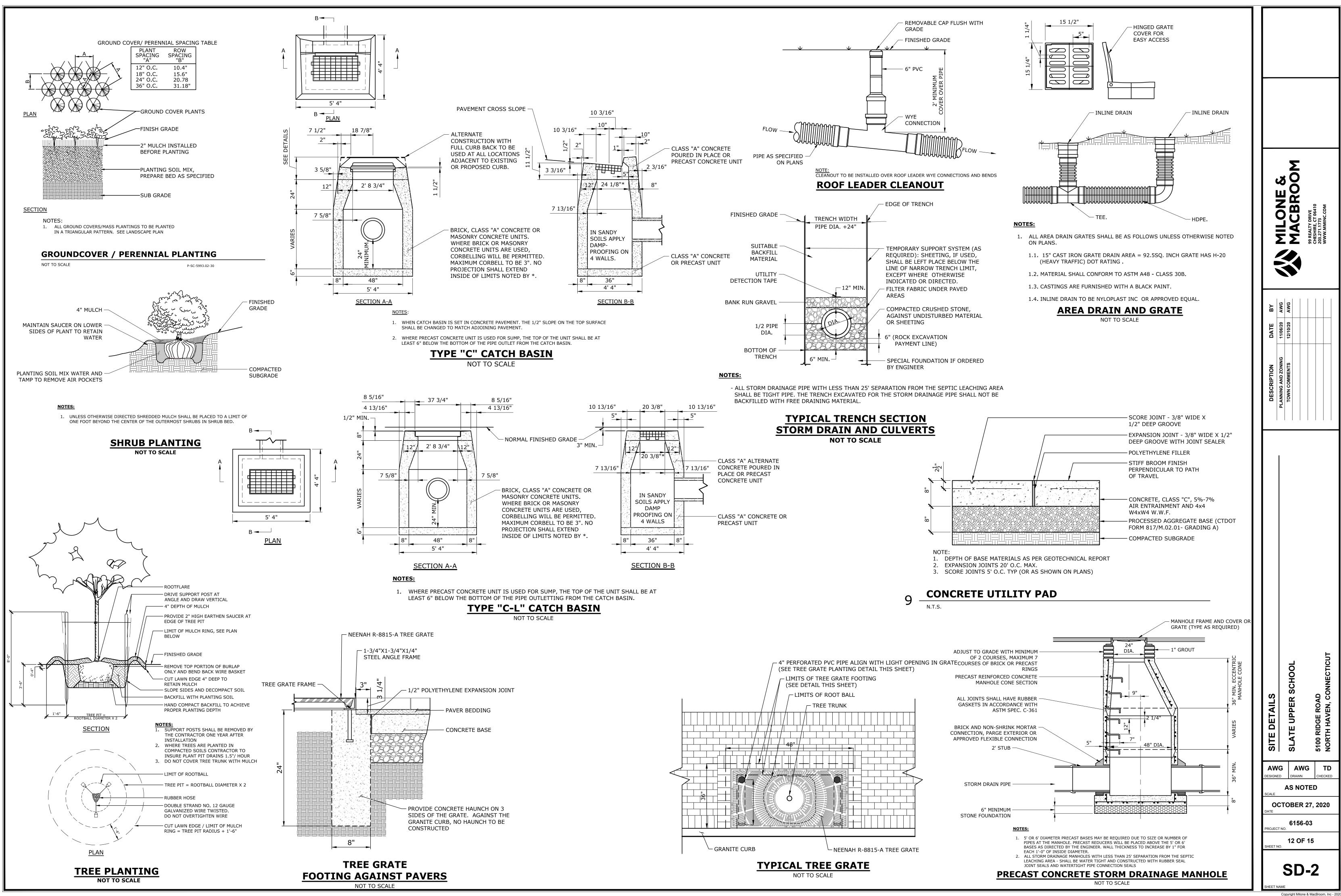
SEDIMENT FILTER FENCE (GSF) NOT TO SCALE

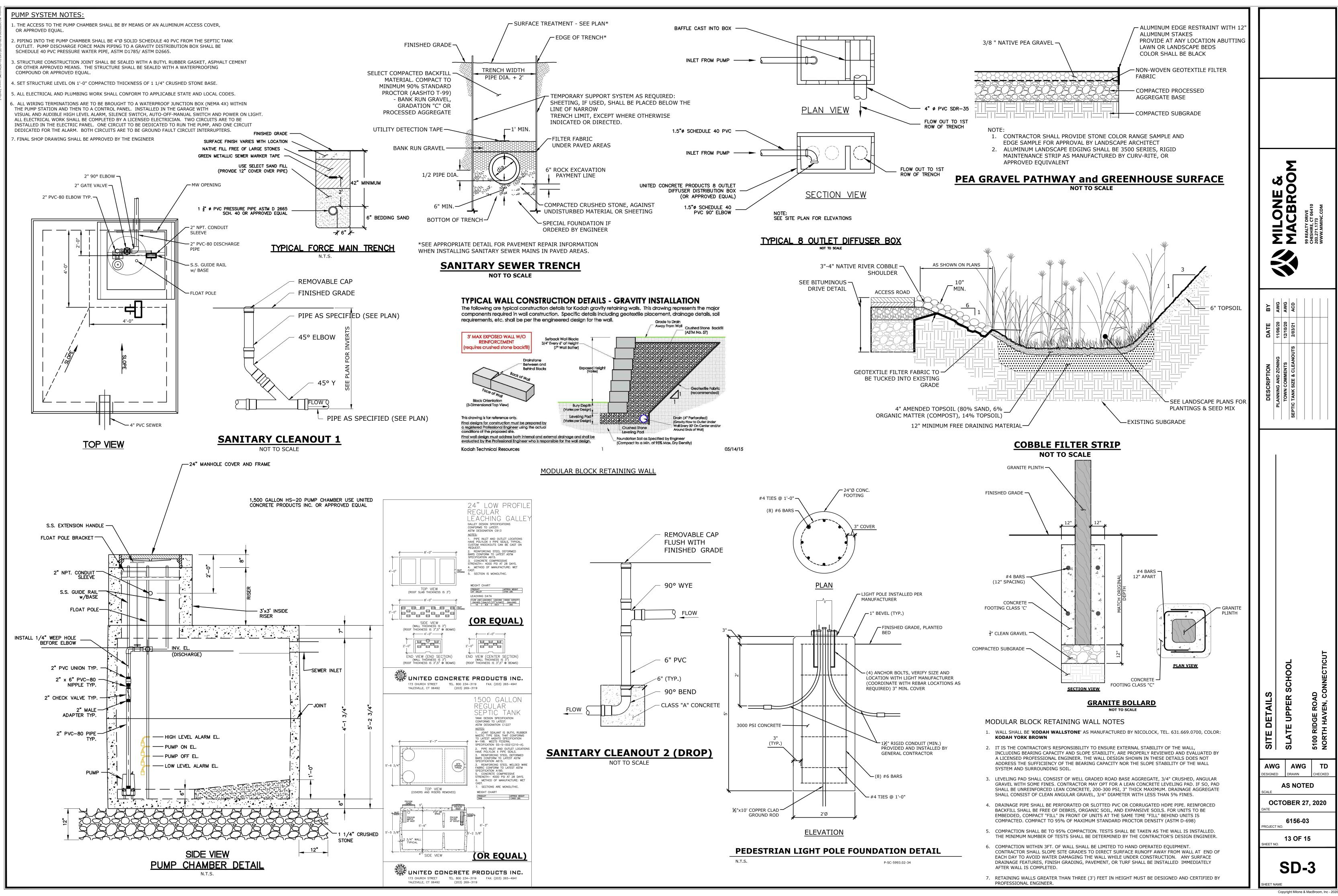
12" MIN.

	EROSIO	N CONTROL MAINTENANCE INTER	VALS	
EROSION CONTROL MEASURE	CONTROL OBJECTIVE	INSPECTION/MAINTENANCE	FAILURE INDICATORS	
TEMPORARY SEDIMENT TRAP (TST)	- DETAIN SEDIMENT-LADEN RUNOFF FROM SMALL DISTURBED AREAS LONG ENOUGH TO ALLOW A MAJORITY OF THE SEDIMENT TO SETTLE OUT.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. STONE OUTLET SHOULD BE AT LEAST 1 FOOT BELOW CREST OF EMBANKMENT. SEDIMENT MUST BE REMOVED WHEN ACCUMULATION REACHES 1/2 OF THE REQUIRED WET STORAGE.	- TURBID WATER - EXCESSIVE SEDIMENT ACCUMULATION - OVERTOPPING EVIDENCE	TS CO PEF
TEMPORARY SEDIMENT BASIN (DETENTION BASIN) (SB/PST)	 INTERCEPT/RETAIN SEDIMENT DURING CONSTRUCTION, PREVENT TRANSPORT AND DEPOSITION OF SEDIMENT OFF CONSTRUCTION SITE. 	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER. CLEAN OUT SEDIMENT WHEN ACCUMULATION EXCEEDS ½ OF THE WET STORAGE CAPACITY OR WHEN DEPTH OF AVAILABLE POOL IS REDUCED TO 18ì. PLACE STAKES OR OTHER MEANS TO INDICATE THE THRESHOLD ELEVATION FOR SEDIMENT CLEANOUT.	- TURBID WATER - EXCESSIVE SEDIMENT ACCUMULATION - OVERTOPPING EVIDENCE - EROSION OF EMBANKMENTS	TE AR DE ON AR
SILT FENCE (SF) (RELATED: IP, STK)	 - INTERCEPT, AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. - DECREASE VELOCITY OF SHEET FLOW. - PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW. 	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE ITS DEPTH IS EQUAL TO ½ THE TRENCH HEIGHT. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	 PHYSICAL DAMAGE OR DECOMPOSITION EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE REPETITIVE FAILURE 	SII UP BE
HAY BALES (HB)	 INTERCEPT, AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. DECREASE VELOCITY OF SHEET FLOW. PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW. 	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE THE DEPTH OF SEDIMENT IS EQUAL TO ½ THE HEIGHT OF THE BARRIER. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	 PHYSICAL DAMAGE OR DECOMPOSITION EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE REPETITIVE FAILURE 	HA UP PE
CONSTRUCTION ENTRANCE (CE)	- REDUCE THE TRACKING OF SEDIMENT OFF-SITE ONTO PAVED SURFACES.	INSPECT AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC ADDITION OF STONE, OR LENGTHENING OF ENTRANCE MAY BE REQUIRED AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES AS A RESULT OF INEFFICIENCY OF CONSTRUCTION ENTRANCE SHALL BE IMMEDIATELY REMOVED.	- SEDIMENT IN ROADWAY ADJACENT TO SITE	CO RE PEI OT BE
CATCH BASIN INLET PROTECTION (IP)	- PROHIBIT SILT IN CONSTRUCTION-RELATED RUNOFF FROM ENTERING STORM DRAINAGE SYSTEM.	INSPECT AFTER ANY RAIN EVENT, IF FILTER BAG INSIDE CATCH BASIN CONTAINS MORE THAN 6ì OF SEDIMENT, REMOVE SEDIMENT FROM BAG. CHECK SURROUNDING SILT FENCE AND HAY BALES PER NOTED ABOVE.	- RIPPED BAG - FAILED HAY BALES / SILT FENCE - SIGNIFICANT SILT PRESENCE IN STORM DRAINAGE SYSTEM OUTFLOW.	INL ON PEF SEC PEF
STOCKPILE PROTECTION (STK)	- RETAIN SOIL STOCKPILE IN LOCATIONS SPECIFIED, AND REDUCE WATER-TRANSPORT.	INSPECT SILT FENCE AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC REINFORCEMENT OF SILT FENCE, OR ADDITION OF HAY BALES MAY BE NECESSARY.	- EVIDENCE OF STOCK PILE DIMINISHING DUE TO RAIN EVENTS - FAILURE OF SILT FENCE	ST REI US



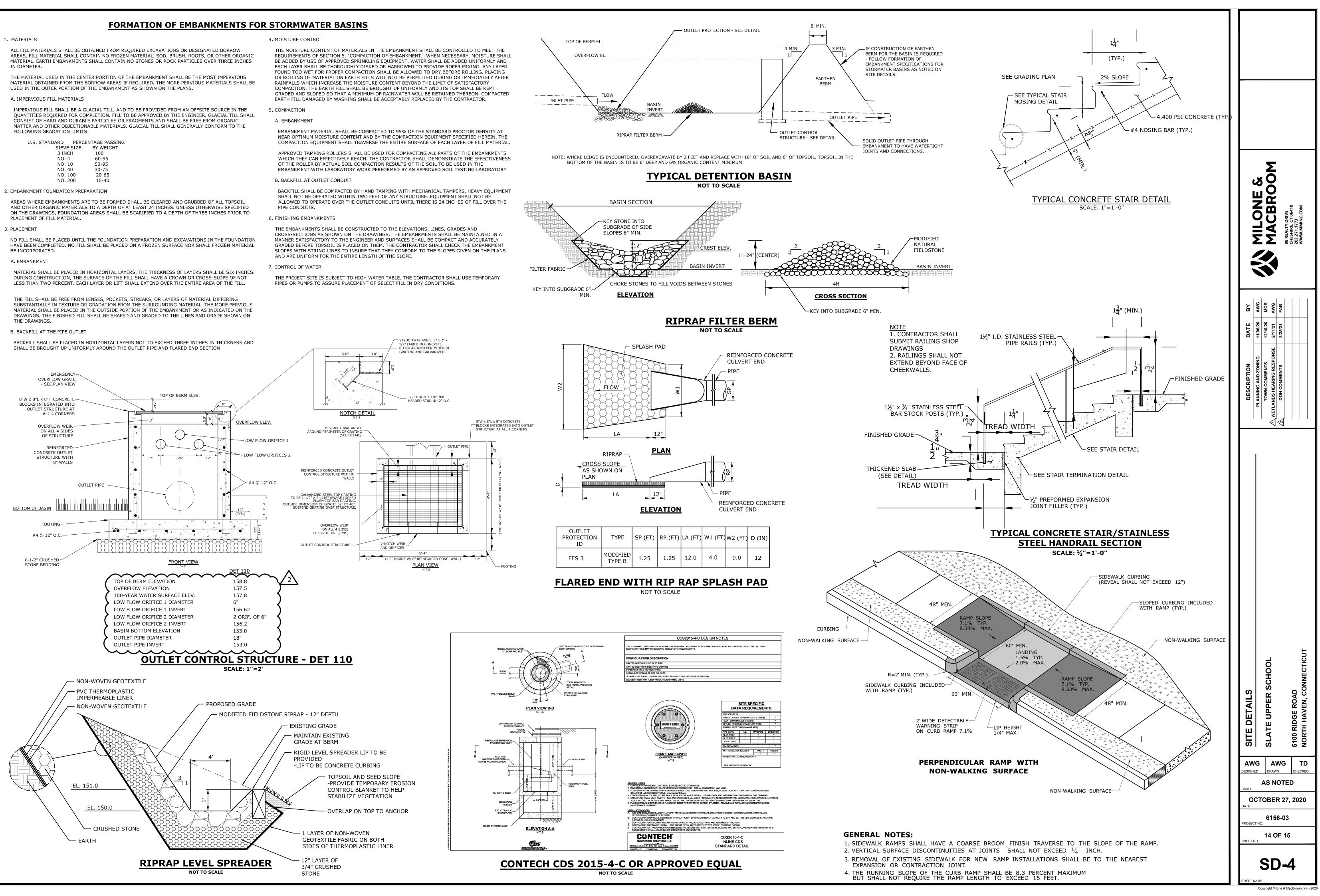






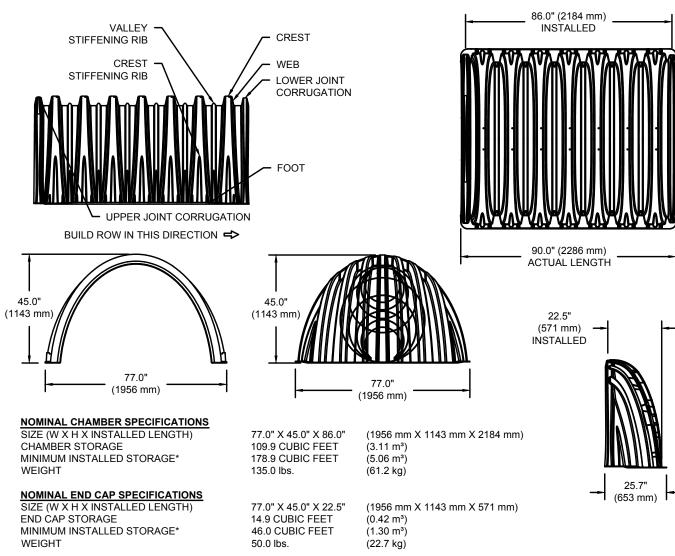
S. STANDARD	PERCE	ENTAGE PASSING
SIEV	E SIZE	BY WEIGHT
3 IN	CH	100
NO.	4	60-95

NO. 4	60-95
NO. 10	50-95
NO. 40	30-75
NO.100	20-65
NO. 200	10-40





- CHAMBERS SHALL BE STORMTECH MC-3500 OR APPROVED EQUAL
- CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
- a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
- A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12,12, ARE MET, THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE
- c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- 8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY



*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"

PART #	STUB	В	С
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	
MC3500IEPP06B	0 (150 mm)		0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	
MC3500IEPP08B	8 (200 mm)		0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	
MC3500IEPP10B	10 (250 1111)		0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	
MC3500IEPP12B	12 (300 mm)		1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	
MC3500IEPP15B	10 (070 mm)		1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	
MC3500IEPP18BC	10 (400 mm)		1.77" (45 mm)
MC3500IEPP24TC	24" (600 mm)	14.48" (368 mm)	
MC3500IEPP24BC			2.06" (52 mm)
MC3500IEPP30BC	30" (750 mm)		

CUSTOM PRECORED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm) THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHTEST POSSIBLE FOR THE PIPE SIZE.

MC-3500 TECHNICAL SPECIFICATION

