

BOKUM ROAD BUSINESS PARK BOKUM ROAD ESSEX, CONNECTICUT

JULY 2021

PERMIT DRAWINGS

INLAND WETLANDS AND WATERCOURSES COMMISSION SUBMISSION

PREPARED FOR:

GEORGE C. FIELD COMPANY, INC.

SECTION 90E. 90E. 90E. 90E. 90E. PARKING AND LOADING SPACE REQUIREMENTS: 1 SPACE / EMPLOYEE X 30 EMPLOYEES = 30 PARKING SPACES 1 TRUCK LOADING SPACE / 20,000 SF GROSS FLOOR AREA X 52,480 SF = 3 TRUCK LOADIN PARKING AND LOADING SPACES PROVIDED: 52 PARKING SPACES 3 TRUCK LOADING SPACES NOTE:

PREPARED BY:

Summer Hill Civil Engineers & Land Surveyors, P.C. 60 Wall Street P.O. Box 708 Madison, Connecticut 06443-0708 Telephone: (203) 245-0722



	SCHEDULE OF DRAWINGS
No.	SHEET No. TITLE C0.1 TITLE SHEET C0.2 GENERAL NOTES, ABBREVIATIONS AND LEGEND C0.3 EROSION AND SEDIMENT CONTROL NOTES C1.1 EXISTING CONDITIONS PLAN C2.1 GENERAL PLAN C2.2 SUBSURFACE SEWAGE DISPOSAL SYSTEM PLAN C2.3 SITE LAYOUT PLAN C3.1 DETAILS C3.2 DETAILS C3.3 DETAILS C3.4 DETAILS C3.5 DETAILS C3.6 DETAILS C3.7 MASH W-BEAM HARDWARE C3.8 METAL BEAM RAIL (R-B MASH) GUIDERAIL C3.9 R-B END ANCHORAGE TYPE I AND II
PROVIDED 388,259 SF 200 FT - 35.5 FT - 13% 24 FT	LOCATION PLAN SOLE 11-1000 (N FEET)
D COMPANY, INC. FICUT 06426 COMPANY, INC. FICUT 06426	TOOS SOUNAL ENGINE

ZONING STANDARDS SCHEDULE

LIMITED IND	USTRIAL (LI) DISTRICT			
SECTION	STANDARD	REQUIRED	EXISTING	PROVIDED
90E.	MINIMUM LOT AREA	80,000 SF	388,259 SF	388,259 SF
90E.	MINIMUM LOT WIDTH	200 FT	200 FT	200 FT
90E.	MINIMUM SETBACKS (1)			
	FRONT	75 FT	-	-
	SIDE	25 FT	-	35.5 FT
	REAR	50 FT	-	-
90E.	MAXIMUM BUILDING COVERAGE	25%	-	13%
90E.	MAXIMUM BUILDING HEIGHT	35 FT	-	24 FT

1. NO SETBACK REQUIRED FROM A LOT LINE WHICH ABUTS A RAILROAD RIGHT-OF-WAY.

OWNER GEORGE C. FIELD P.O. BOX 24 ESSEX, CONNECT 860-767-0420

APPLICANT GEORGE C. FIELD P.O. BOX 24 ESSEX, CONNEC 860-767-0420

4 11-29-21 REVIEW COMMENTS 3 11-1-21 REVIEW COMMENTS 2 9-13-21 REVIEW COMMENTS REVISED: 1 8-15-21 MISCELLANEOUS

SHEET No.: C0.1

MICHAEL J. OTT, P.E., L.S. CT REGISTRATION No. 70082

DATE

			ABBREVIATIONS
		Ac.	
		ACF	ASPESTOS CEMENT FIFE ASPHALT COATED CORRUGATED METAL PIPE
		A.O.B.E.	
		B&B BIT.	BITUMINOUS
1		BM	BENCHMARK
		B.O.F.	BOTTOM OF FOOTING CABLE TELEVISION
		CATV	CATCH BASIN
		C.C.	CENTER TO CENTER
		C.C.S.	CONNECTICUT COORDINATE SYSTEM
		CHD	CONNECTICUT HIGHWAY DEPARTMENT
		CIP	
—		CJ CL	CONSTRUCTION OR CONTRACTION JOINT CLEAR
		C.L.&P.	CONNECTICUT LIGHT AND POWER
		СМР	CORRUGATED METAL PIPE
		CMU CONC	CONCRETE MASONRY UNIT CONCRETE
		CONT.	CONTINUOUS
		CPEP	CORRUGATED POLYETHYLENE PIPE
		DBL.	DOUBLE
2		DH	DRILL HOLE
			DUCTILE IRON
		DIA. DIP	DUCTILE IRON PIPE
		EA.	EACH
		EJ	EXPANSION JOINT
		E.O.B.	ELEVATION END OF BORING
		EOP	EDGE OF PAVEMENT
—		EQ. FY	EQUAL
		∟∧. f' _C	MINIMUM COMPRESSIVE STRENGTH
		fy	YIELD STRENGTH OF STEEL REINFORCEMENT
		F.F. FM	FINISH FLOOR FORCE MAIN
		FND.	FOUND
		FRP	FIBERGLASS REINFORCED PLASTIC
		гı GA.	GAUGE
3		GAL	GALLON
		H HDPF	HORIZONTAL HIGH DENSITY POLYETHYLENE
		HMA	HOT MIX ASPHALT
		HTL	HIGH TIDE LINE
		I.D. INV.	INSIDE DIAMETER INVERT
		IP	IRON PIN/PIPE
		KSF	KIPS PER SQUARE FOOT
		LB	POUND
		L.F.	LINEAR FEET
		L.S.	
		L I LVC	LEF I LENGTH OF VERTICAL CURVE
		MAX.	MAXIMUM
		MH	
		MIN. MON	MINIMUM MONUMENT
4		N/F	NOW OR FORMERLY
		N.I.C.	
		0.C.	ON CENTER
		O.D.	OUTSIDE DIAMETER
		P.C.	
		P.C.C. PE	POINT OF COMPOUND CORVATORE PLAIN END OR POLYETHYLENE
		P.I.	POINT OF INTERSECTION
		P.R.C.	POINT OF REVERSE CURVATURE
		PSF	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH
		P.T.	POINT OF TANGENCY
		PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE
		PVLC	POINT OF VERTICAL INTERSECTION
		PVRC	POINT OF VERTICAL REVERSE CURVATURE
		PVT R	POINT OF VERTICAL TANGENCY RADIUS
5		RCCE	REINFORCED CONCRETE CULVERT END
-		RCP	REINFORCED CONCRETE PIPE
		К.О.W. R R	RIGHT-OF-WAY RAILROAD
		RT	RIGHT
		R/W	RETAINING WALL
		SAN SCG	SANTIARY SOUTHERN CONNECTICUT GAS
		SCH	SCHEDULE
_		SDR	STANDARD DIMENSION RATIO
		S.F. SNET	SQUARE FOUT SOUTHERN NEW ENGLAND TELEPHONE
		S.S.	STAINLESS STEEL
		STA.	STATION
		S.Y.	SUARD SQUARE YARD
		T&B	TOP AND BOTTOM
		T.F.	TOP OF FRAME
6		т.О.F.	TOP OF FOOTING
		T.O.W.	TOP OF WALL
		TYP.	TYPICAL UNITED II I UMINATING
		U.I. V	VERTICAL
		VCP	VITRIFIED CLAY PIPE
		WF	WETLAND FLAG
		- -	
	4 11-29-21 REVIEW COMMENTS		
	11-1-21 REVIEW COMMENTS		
	2 9-13-21 REVIEW COMMENTS		
	1 8-15-21 MISCELLANEOUS		
	NO. DATE DESCRIPTION		
	KEVISIUNS		

	LE	GEND
	EXISTING	PROPOSED
RIGHT-OF-WAY LINE		
EASEMENT LINE		
BASELINE		1+00
ELEVATION CONTOUR		
ELEVATION	× 100.0	+ 100.0
EDGE OF PAVEMENT		
CURBING		
GUIDE RAIL	0 0 0 0 0 0 0	
TREE LINE		
MAILBOX	Ð	-=
SIGN		
LIGHT POST	*	*
UTILITY POLE (W/GUY)	$\rightarrow \rightarrow \phi$	→ →
UTILITY POLE (W/LIGHT)	¤,0'	ו
HYDRANT	-\$-	+
CHAIN LINK FENCE	OOOOO	
WIRE FENCE	— x — — x — x — x —	
WOOD FENCE		
STONE WALL	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
HEDGEROW	(
WATERCOURSE		
INLAND WETLAND BOUNDARY		
TIDAL WETLAND BOUNDARY	▼ ▼ 	
COMMUNICATIONS		c
ELECTRIC		E
GAS MAIN/SERVICE	<i>G</i>	G
WATER MAIN/SERVICE		
	~	v v
SANITARY SEWER < 12" DIAMETER		
STORM SEWER < 12 DIAMETER		
	\square	
	\bigcirc	\bigcirc
	<u>/•</u>	
BORING	U	
PROBE	\bullet	
ASSESSOR'S MAP NO./LOT NO.	49-50	
SOIL TYPE	87B	
SOIL TYPE BOUNDARY		
FLOODPLAIN BOUNDARY		
CLEARING LIMIT LINE		
LIMIT OF CUT		©
LIMIT OF FILL		
PAVEMENT REMOVAL LINE		
SEDIMENTATION CONTROL BARRIER		
SEDIMENTATION CONTROL AT DRAINAGE STRUCTUR		
DECIDUOUS TREE	$\left(\begin{array}{c} \circ \\ \\ \end{array} \right)$	
CONIFEROUS TREE		
SHRUB		
TREE TO BE REMOVED		W20-1 (80-9602)
		MUTCD SIGN NO CONNDOT SIGN NO.

SOIL TYPE LEGEND

REFERENCE: NATIONAL COOPERATIVE SOIL SURVEY DATA FOR THE STATE OF CONNECTICUT, U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE

MAP UNIT SYMBOL MAP UNIT DESCRIPTION

36B WINDSOR LOAMY SAND, 3 TO 8 PERCENT SLOPES

LAND OF GEORGE C. FIELD COMPANY, INC. BOKUM ROAD ESSEX, CONNECTICUT

			G			₩.
(GENERAL NOTI	FS:				
1.	. THESE DRAWINGS A ENVIRONMENTAL PE	RE INTENDED TO	D BE USED FOR MUNIC OSES AND ARE NOT IN	IPAL, STATE, AND/OR F TENDED TO BE USED A	EDERAL LAND USE AND AS CONSTRUCTION DOCUMENTS.	
2	. PROPERTY BOUNDA BEEN REPRODUCED	RY, STREET LINE FROM THE FOLL	E, AND PLANIMETRIC A	ND TOPOGRAPHIC INF	ORMATION DEPICTED HEREIN HAS	
	"IMPROVEMENT LOC CONNECTICUT", SHE	ATION SURVEY F EETS 1-2 OF 2, SC	PREPARED FOR HERBE CALE: 1"=40', DATE: 3-1	RT T. CLARK, III #37 BC 1-20, PREPARED BY DC	OKUM ROAD ESSEX, DANE ENGINEERING.	
3	. THE INLAND WETLAI ENGLAND ENVIRONI	ND BOUNDARY E MENTAL SERVICE	DEPICTED HEREIN WAS ES ON 12-23-18.	DELINEATED BY R. RIC	CHARD SNARSKI, CPSS OF NEW	
4	. THE PROJECT COOF	RDINATE SYSTEM	I IS REFERENCED TO TI	HE BEARING SYSTEM C	OF THE REFERENCE MAP NOTED.	
5	. ELEVATIONS ARE RE	EFERENCED TO T	HE NORTH AMERICAN	VERTICAL DATUM OF	1988.	
6	. THE PARCEL IS DEPI	ICTED ON ASSES	SORS MAP 67 AS LOT	1.		
7	. PARCEL AREA = 388	,259 SF = 8.91 A0	C. PER THE REFERENCE	E MAP NOTED.		
8	.THE PARCEL IS LOC.	ATED WITHIN A L	IMITED INDUSTRIAL (L	I) ZONING DISTRICT.		
9	. THE PARCEL IS LOC. NATIONAL FLOOD IN PANEL 333 OF 450, N	ATED WITHIN SP ISURANCE PROG JAP NUMBER 090	ECIAL FLOOD HAZARD SRAM FLOOD INSURAN 007C0333G, EFFECTIVE	AREA ZONE A AND FL CE RATE MAP MIDDLES DATE: 8-28-08.	OOD ZONE X. REFERENCE: FEMA SEX COUNTY, CONNECTICUT	
10	. SOIL TYPES AND/OR COOPERATIVE SOIL NATURAL RESOURC	SOIL TYPE BOU SURVEY DATA FO ES CONSERVATION	NDARIES DEPICTED HE OR THE STATE OF CON ON SERVICE.	REIN HAVE BEEN REPF NECTICUT, U.S. DEPAF	RODUCED FROM NATIONAL RTMENT OF AGRICULTURE,	
11	. UNDERGROUND UTI RECORD MAPPING A FACILITY LOCATION SHOWN.	ILITIES, STRUCTU ND FIELD LOCA S SHOWN SHOUI	JRES AND OTHER FACI TIONS OF ABOVE GROU LD BE CONSIDERED AF	LITIES DEPICTED HERE JND FACILITIES AND M PROXIMATE ONLY ANI	IN HAVE BEEN COMPILED FROM IARKOUTS. ALL UNDERGROUND O ALL FACILITIES MAY NOT BE	
12	. THE CONTRACTOR S MAINTENANCE AND CENTER (1-800-922-4 MARKED ON THE GR THAT A UTILITY IS LO ACCORDANCE WITH UTILITY COMPANY O	SHALL BE RESPC PROTECTION TH 4455) AT LEAST T ROUND THE LOC/ OCATED DURING THE DRAWINGS CONTACTS:	NSIBLE FOR LOCATING IEREOF. CONTACT THE WO WORKING DAYS P ATION OF ALL UNDERG THE PROGRESS OF TH 5.	S ALL UNDERGROUND E CONNECTICUT "CALL RIOR TO THE START OF ROUND UTILITIES. NO IE WORK THAT IS NOT	UTILITIES AND FOR THE BEFORE YOU DIG" CLEARANCE WORK TO ESTABLISH AND HAVE DTIFY THE ENGINEER IN THE EVENT INDICATED ON OR IS NOT IN	
	CABLE TELEVISION COMMUNICATIONS COMMUNICATIONS ELECTRIC	- COMCAST OF C - FRONTIER COM - LIGHT TOWER F - EVERSOURCE F	CONNECTICUT, INC. IMUNICATIONS OF COI FIBER NETWORKS I, LLC ENERGY	NNECTICUT C	(860) 505-3331 (203) 238-5000 (203) 649-3904 (860) 665-4733	
	GAS WATER	- CONNECTICUT	WATER COMPANY	JANY	(203) 795-7767 (860) 664-6007	
13	. IN GENERAL, EXISTII LETTERING AND PRO	NG CONDITIONS DPOSED WORK IS	AND FEATURES ARE D S DEPICTED IN BOLD G	EPICTED IN SCREENED RAPHICS AND UPPERC	D GRAPHICS AND TITLECASE CASE LETTERING.	
14	. THE STANDARD SPE SECTION OF THE "ST ROADS, BRIDGES, F/ ALL SUPPLEMENTS	CIFICATIONS AR TATE OF CONNEC ACILITIES AND IN THERETO.	E THE DIVISION II CON CTICUT DEPARTMENT (ICIDENTAL CONSTRUC	STRUCTION DETAILS A)F TRANSPORTATION S TION, FORM 818", 2020	ND DIVISION III MATERIALS STANDARD SPECIFICATIONS FOR 0, LATEST REVISION, INCLUDING	
15	. PRIOR TO THE STAR CONDITIONS AND FE CONDITIONS AND FE	T OF WORK, THO EATURES. NOTIF EATURES IN THE	DROUGHLY REVIEW TH Y THE ENGINEER OF D FIELD.	E DRAWINGS, THE SITE ISCREPANCIES BETWE	E OF THE WORK AND ALL EXISTING IEN THE DRAWINGS AND EXISTING	
16	ADHERE TO THE REC REGULATORY AUTH PROJECT.	GULATIONS AND ORITIES, AND TH	ORDINANCES OF THE E PROVISIONS OF ALL	TOWN OF ESSEX, ALL APPROVALS AND OR F	APPLICABLE STATE AND FEDERAL PERMITS ISSUED FOR THE	
17	. PROVIDE EROSION A THE MINIMUM STANI CONNECTICUT GUIE EROSION AND SEDIM	AND SEDIMENT (DARDS FOR ALL DELINES FOR SOI MENT CONTROLS	CONTROLS AS SHOWN EROSION AND SEDIME L EROSION AND SEDIN S SHALL BE MAINTAINE	ON THE DRAWINGS OF NT CONTROLS SHALL IENT CONTROL", LATES D UNTIL ALL DISTURB	R AS ORDERED BY THE ENGINEER. BE THOSE OUTLINED IN THE "2002 ST REVISION. TEMPORARY ED AREAS HAVE BEEN STABILIZED.	
18	. MATERIAL AND EQU	IPMENT STORAG	E AREA LOCATIONS SI	HALL BE APPROVED BY	THE ENGINEER.	
19	. VEHICLE AND EQUIF APPROVED BY THE E	PMENT FUELING	AND MAINTENANCE OF	PERATIONS SHALL BE I	PERFORMED ONLY IN AREAS	
20	. IN THE EVENT OF A AND ENVIRONMENT, 866-337-7745) AND T	CONTAMINANT F AL PROTECTION THE TOWN OF ES	RELEASE, IMMEDIATELY EMERGENCY RESPON SEX FIRE MARSHALS C	Y NOTIFY THE CONNEC SE AND SPILL PREVEN FFICE (860-767-4340).	TICUT DEPARTMENT OF ENERGY TION DIVISION (860-424-3338 OR	
21	. COORDINATE ALL B	UILDING UTILITY	SERVICE WORK WITH	THE RESPECTIVE UTILI	TY COMPANIES.	
22	2. ALL WORK WITHIN T TOWN OF ESSEX DE	THE RIGHT-OF-WA	AY OF BOKUM ROAD W JBLIC WORKS.	ILL REQUIRE AN ENCF	ROACHMENT PERMIT FROM THE	
23	B. BE RESPONSIBLE FO	OR THE MAINTEN	ANCE AND PROTECTIC	ON OF TRAFFIC WITHIN	AND ADJACENT TO WORK AREAS.	
24	. BE RESPONSIBLE FO	OR THE CONTRO	L OF DUST RESULTING	FROM CONSTRUCTION	N OPERATIONS.	
25	. PROTECT ALL EXIST DRAWINGS.	ING CONDITION	S AND FEATURES WHE	RE NEW CONSTRUCTIO	ON IS NOT SHOWN ON THE	
26	. PROTECT STREET LI PRIVATE BOUNDARY	NE MONUMENTS MARKERS DIST	S AND PRIVATE BOUND JRBED BY CONSTRUC	ARY MARKERS. RESET TION OPERATIONS.	STREET LINE MONUMENTS AND	
27	. PRIOR TO THE STAR ENGINEER TO REVIE PROTECTED.	RT OF TREE AND ' W SPECIFIC TRE	VEGETATION REMOVAL ES AND VEGETATION T	. WORK, SCHEDULE A O BE REMOVED AND T	FIELD MEETING WITH THE REES AND VEGETATION TO BE	
28	B. SAWCUT PAVEMENT IS TO BE PLACED AG BITUMEN, MATCH E	TS AT THE LINES GAINST EXISTING XISTING ADJACE	SHOWN ON THE DRAW PAVEMENT, CLEAN TH INT PAVEMENT SURFAC	INGS. WHERE NEW BI E FACE OF EXISTING F CE ELEVATIONS WITH N	TUMINOUS CONCRETE PAVEMENT PAVEMENT AND APPLY LIQUID NEW PAVEMENT.	
29). ADJUST MANHOLE F PAVEMENTS ELEVAT	FRAMES, HANDH TONS.	OLES, AND VALVE BOX	ES TO MATCH FINISHE	D GROUND SURFACE AND	

30. PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

31. SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. TEMPORARY AND PERMANENT SIGN IDENTIFICATION NUMBERS SHOWN ON THE DRAWINGS ARE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST REVISION AND THE CONNECTICUT DEPARTMENT OF TRANSPORTATION SIGN CATALOG, LATEST REVISION.

32. THE SUBGRADE OF DISTURBED GROUND SURFACES NOT NOTED TO BE SURFACED OTHERWISE SHALL RECEIVE A 6" THICKNESS OF TOPSOIL UPON WHICH TURF SHALL BE ESTABLISHED.



Summer	Hill

Civil Engineers & Land Surveyors, P.C. 60 Wall Street P.O. Box 708 Madison, Connecticut 06443-0708 Telephone: (203) 245-0722

PROJEC

7-1-21 SCALE: AS NOTED DESIGNED: MJO CHECKED:

FIELD BOOK:

BOKUM ROAD BUSINESS PARK BOKUM ROAD ESSEX, CONNECTICUT

SHEET NO .: SHEET GENERAL NOTES, ABBREVIATIONS AND LEGEND PROJECT NO.: 20-50

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	A. PROJECT NARRATIVE	2. VEGETATIVE SOIL COVER
	THE PLANNED PROJECT CONSISTS OF THE CONSTRUCTION OF A COMMERCIAL BUSINESS PARK. THE IMPROVEMENTS CONSIST OF A 28,000 SQUARE FOOT AND A 24,800 SQUARE FOOT BUILDING AND ASSOCIATED ACCESS ROADWAY, DRIVEWAYS, PARKING AREA. RETAINING WALL, UTILITY SERVICES ON-SITE. WASTEWATER SYSTEMS, STORMWATER MANAGEMENT FACILITIES.	a.) TEMPORARY SEEDING INSTALLATION REQUIREMENTS
	GUIDERAIL, SIGNAGE, AND LANDSCAPING.	APPLICATION AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE REQUIREMENTS FOR LAND GRADING.
	THE SITE WORK CONSTRUCTION ASSOCIATED WITH THE PROJECT INCLUDES EROSION AND SEDIMENT CONTROL. TRAFFIC	ii.) INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, SEDIMENT BASINS AND GRASSED WATERWAYS.
	CONTROL, SITE PREPARATION, MASSICIATED WITH THE PROJECT INCLUDES EROSION AND SEDIMENT CONTROL, TRAFFIC CONTROL, SITE PREPARATION, MASS EARTHWORK, TRENCHING, BACKFILLING, GRADING, BUILDING FOUNDATION, RETAINING WALL, WATER MAIN AND SERVICE, COMMUNICATION, ELECTRIC, AND GAS UTILITY, WASTEWATER SYSTEM, STORM DRAINAGE, DAVING, CHURPING, CHURPTEMENT MARKING, SIGNAGE, AND SHARE AND THE ESTABLICUMENT CONSTRUCTION.	b.) SEEDBED PREPARATION
	THE TOTAL AREA OF LAND DISTURBANCE ASSOCIATED WITH THE COMPLETE PROJECT CONSTRUCTION ACTIVITIES IS	i.) APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL
	APPROXIMATELY 3.75 ACRES. THE SURFICIAL SOILS ON THE PROJECT SITE ARE IDENTIFIED IN THE NATURAL RESOURCES CONSERVATION SERVICE SOIL	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. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS
	SURVEY FOR THE STATE OF CONNECTICUT AS WINDSOR LOAMY SANDS, 3-8% SLOPES (36B). THE SITE IS LOCATED WITHIN THE FALLS RIVER SUBREGIONAL DRAINAGE BASIN (HUC 4019). THE MUD RIVER FLOWS	SOIL TEXTURE
	NORTHERLY TO THE WEST OF THE SITE AND ALONG THE SITES NORTHERLY BOUNDARY. THE SITE IS LOCATED WITHIN AN UN-NUMBERED SPECIAL FLOOD HAZARD AREA ZONE A AND FLOOD ZONE X. THE TOTAL AREA	CLAY, CLAY LOAM, 3 135 AND HIGH ORGANIC SOIL
	OF FLOODPLAIN IMPACTS ASSOCIATED WITH THE COMPLETE CONSTRUCTION ACTIVITIES IS APPROXIMATELY 0.45 ACRES.	SANDY LOAM, LOAM, 2 90 SILT LOAM
	IDENTIFIED CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION NATURAL DIVERSITY DATABASE AREA. AREAS OF STEEP SLOPES (25 PERCENT OR GREATER) ARE NOT LOCATED ON THE SITE.	LOAMY SAND, SAND 1 45
	PROJECT LOCATION:	REFER TO DRAWINGS FOR SOIL TEXTURES AT THE SITE.
	THE PROJECT IS LOCATED ON AN APPROXIMATE 9 ACRE INTERIOR LAND PARCEL HAVING FRONTAGE ON BOKUM ROAD IN THE SOUTH CENTRAL PORTION OF THE TOWN OF ESSEX.	c.) SEEDING i) ANNUAL RYE GRASS 40 LBS/ACRE 1 LB/1 000 SE
	PROJECT OWNER:	 ii.) WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER LIME AND SEED
	GEORGE C. FIELD COMPANY, INC. P.O. BOX 24 ESSEX, CONNECTICUT, 06426	iii.) APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER.
	860-767-0420	10 PERCENT WHEN HYDROSEEDING.
		IV.) SPRING SEEDINGS USUALLY GIVE THE BEST RESULTS, SPRING SEEDINGS OF ALL SEED LEGUMES IS RECOMMENDED. HOWEVER, LATE SUMMER SEEDINGS PRIOR TO SEPTEMBER 1 CAN BE MADE. WHEN CROWN VETCH IS SEEDED IN LATE SUMMER AT LEAST 35 PERCENT OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED), THE RECOMMENDED SEEDING
	GEORGE C. FIELD COMPANY, INC. P.O. BOX 24 ESSEX, CONNECTICUT, 06426	DATES ARE: MARCH 1 THROUGH JUNE 15 AUGUST 1 THROUGH OCTOBER 1
	ESSEX, CUNNECTICUT 06426 860-767-0420	d.) PERMANENT SEEDING INSTALLATION REQUIREMENTS
		i.) GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE REQUIREMENTS
	PERMITS OF THE TOWN OF ESSEX INLAND WETLANDS AND WATERCOLD ARE SUBJECT TO THE REQUIREMENTS OF APPROVALS AND PERMITS OF THE TOWN OF ESSEX INLAND WETLANDS AND WATERCOURSES COMMISSION AND PLANNING AND ZONING COMMISSION, AND APPROVALS AND PERMITS ISSUED BY THE TOWN OF ESSEX LAND USE, HEALTH, BUILDING, AND PUBLIC WORKS DEPARTMENTS, AND THE CONNECTICITE DUPLICATED FOR THE TOWN OF ESSEX LAND USE, HEALTH, BUILDING, AND PUBLIC	FOR LAND GRADING. ii.) INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, SEDIMENT
	IN ADDITION, THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT ARE SUBJECT TO THE REQUIREMENTS OF THE	BASINS AND GRASSED WATERWAYS.
	CONNECTION DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES.	SEEDBED PREPARATION
	THE GENERAL PERMIT INCLUDES REGISTRATION, CERTIFICATION, NOTHICATION, STORMWATER POLLUTION CONTROL PLAN PREPARATION, AND INSPECTION REQUIREMENTS. THE GENERAL PERMIT CAN BE ACCESSED AT URL:	CONNECTICUT SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT 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
	https://portal.ct.gov/-/media/DEEP/Permits_and_Licenses/Water_Discharge_General_Permits/stormconstgp1.pdf	USING 10-10-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS OF 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED FOR TOPDRESSING. APPLY GROUND LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS:
	THE PLANNED START DATE FOR THE PROJECT IS SPRING 2022. IT IS ANTICIPATED THAT THE DURATION OF SITE WORK	SOIL TEXTURE TONS/AC. LBS/1,000 SQUARE FEET
	THE GENERAL SEQUENCE OF SITE WORK CONSTRUCTION ACTIVITIES WILL BE AS FOLLOWS:	CLAY, CLAY LOAM, 4 180 AND HIGH ORGANIC SOIL
	1. EQUIPMENT MOBILIZATION. 2. INSTALLATION OF TEMPORARY EROSION AND SEDIMENT CONTROLS.	SANDY LOAM, LOAM, 3 135 SILT LOAM
	3. SITE PREPARATION. 4. MASS EARTHWORK OPERATIONS.	LOAMY SAND, SAND 2 90
	5. BUILDING FOUNDATION CONSTRUCTION. 6. RETAINING WALL CONSTRUCTION. 7. WATER MAIN AND SERVICE CONSTRUCTION	REFER TO DRAWINGS FOR SOIL TEXTURES AT THE SITE.
	 WATER MAIN AND SERVICE CONSTRUCTION. COMMUNICATIONS, ELECTRIC, AND GAS UTILITY SERVICES CONSTRUCTION. STORM DRAINAGE AND STORMWATER WETLAND CONSTRUCTION. 	IL) WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR
	10. WASTEWATER SYSTEM CONSTRUCTION. 11. DRIVEWAY AND PARKING AREA CONSTRUCTION.	SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
	12. PAVING AND CURBING OPERATIONS. 13. GUIDERAIL CONSTRUCTION.	OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL.
	14. LANDSCAPE PLANTING CONSTRUCTION. 15. TOPSOIL PLACEMENT AND TURF ESTABLISHMENT.	iv.) INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.
	16. RESTORATION OF DISTURBED AREAS. 17. FINAL CLEAN UP AND REMOVAL OF TEMPORARY EROSION AND SEDIMENT CONTROLS.	SEEDING DATES
	B. EROSION AND SEDIMENT CONTROL STANDARDS AND RESPONSIBILITIES	i.) SPRING SEEDINGS USUALLY GIVE THE BEST RESULTS. SPRING SEEDINGS OF ALL SEED MIXES WITH LEGUMES IS RECOMMENDED, HOWEVER LATE SUMMER SEEDINGS PRIOR TO SEPTEMBER 15 CAN BE MADE. WHEN CROWN VETCH IS SEEDED IN LATE SUMMER AT LEAST 35 PERCENT OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED). THE RECOMMENDED
	THE MINIMUM STANDARDS FOR ALL EROSION AND SEDIMENT CONTROLS SHALL BE THOSE OUTLINED IN THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. THE TYPES AND LOCATIONS OF EROSION AND SEDIMENT	SEEDING DATES ARE: APRIL 15 THROUGH JUNE 15 AUGUST 15 THROUGH SEPTEMBER 15
	CONTROLS DEPICTED ON THE DRAWINGS ARE THE MINIMUM TYPES AND LOCATIONS REQUIRED. THE TYPES OF CONTROLS REQUIRED AND THIER LOCATIONS MAY VARY DURING THE VARIOUS PHASES OF CONSTRUCTION OF THE PROJECT AND THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL REFERENCE THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL",	WITH THE EXCEPTION OF CROWN VETCH, THE FINAL SEEDING DATE MAY BE EXTENDED 15 DAYS IN THE COASTAL TOWNS OF NEW LONDON, MIDDLESEX, NEW HAVEN AND FAIRFIELD COUNTIES.
	LATEST REVISION FOR SPECIFIC DESIGN CRITERIA, CONSTRUCTION DETAILS, AND MAINTENANCE REQUIREMENTS FOR THE VARIOUS TYPES OF EROSION AND SEDIMENT CONTROLS REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION, OPERATION, MONITORING, AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROLS FOR THE PROJECT.	SEEDING
	C. CONTINGENCY PLAN	i.) UNLESS OTHERWISE SPECIFIED ON LANDSCAPE DRAWINGS IF INCLUDED IN THE DRAWING SET, THE SEED MIXTURE SHALL BE AS FOLLOWS:
	A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE CONTACT PERSON DESIGNATED HEREIN WITH THE NAMES AND TELEPHONE NUMBERS OF THE RESPONSIBLE PERSON(S) TO BE CONTACTED IN THE EVENT	SEED MIXTURE LBS/AC. LBS/1,000 SQUARE FEET
	OF AN EROSION AND/OR SEDIMENTATION PROBLEM. THE CONTRACTOR SHALL AT ALL TIMES KEEP SUFFICIENT ADDITIONAL GEOTEXTILE SILT FENCE AND/OR STRAW BALE BARRIER ON THE	KENTUCK BLUEGRASS 20 1.80
	PROJECT SITE TO CONTROL UNFORESEEN EROSION AND/OR SEDIMENTATION PROBLEMS. IN THE EVENT OF A PROBLEM, THE CONTRACTOR SHALL PROMPTLY STABILIZE THE PROBLEM AND CONTAIN ANY SEDIMENT AND THEN NOTIFY THE TOWN OF ESSEX LAND USE DEPARTMENT (860-767-4340).	CREEPING RED FESCUE 20 1.80
	D. GENERAL GUIDELINES:	PERENNIAL RYEGRASS 5 0.40
	1). PRIOR TO THE START OF WORK, INSTALL EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE DRAWINGS OR AS ORDERED BY THE ENGINEER.	ii.) APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER. NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDINGS WHICH ARE MULCHED MAY BE LEFT ON SOIL SURFACE.
	2). ALL EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED CONTINUOUSLY AND INSPECTED ON A PERIODIC BASIS AS DEFINED IN THE GUIDELINES FOR EACH TYPE OF CONTROL, AND SHALL NOT BE REMOVED UNTIL ALL DISTURBED AREAS HAVE BEEN	iii.) WHERE FEASIBLE, EXCEPT WHERE EITHER A CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG. SEEDING OPERATIONS SHOULD BE ON THE CONTOUR
	STABILIZED. IN ADDITION, ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED PRIOR TO AND DURING MAJOR RAINFALL EVENTS.	iv.) FROST CRACK SEEDING MUST BE DONE IN LATE WINTER OR EARLY SPRING. SUITABLE WEATHER CONDITIONS ARE
	3.) LIMIT THE DISTURBANCE OF LAND TO THE LIMITS OF DISTURBANCE REQUIRED TO ACCOMPLISH THE WORK SHOWN ON THE DRAWINGS.	PREEZING NIGHTS AND THAWING DATS WITH LITTLE OR NO SNOW COVER. SEEDING RATES MOST BE INCREASED TO PERCENT WHEN USING THIS METHOD.
	4). PRESERVE EXISTING VEGETATION WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THE DRAWINGS TO BE PRESERVED AND TAKE REASONABLE CARE TO PROTECT SUCH EXISTING VEGETATION.	A SEEDBED IS PREPARED IN THE CONVENTIONAL WAY OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND TO REMOVE SURFACE STONES LARGER THAN ONE AND ONE-QUARTER INCHES IN DIAMETER. SLOPES MUST BE NO STEEPER
	5). WHERE PRACTICABLE, PLAN CONSTRUCTION OPERATIONS SO AS TO LIMIT THE AREAS OF EXPOSED SOIL TO AREAS ACTIVELY UNDER CONSTRUCTION. TAKE REASONABLE CARE TO LIMIT THE PERIOD OF EXPOSURE OF DISTURBED AREAS AND INSTALL PERMANENT VEGETATIVE MEASURES AS SOON AS IS PRACTICABLE	THAN 2 TO 1 (2 FEET HORIZONTALLY TO ONE FOOT VERTICALLY). LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). FIBER MULCH OES NOT PROVIDE ADEQUATE SEEDBED PROTECTION. BETTER PROTECTION IS GAINED BY
	6). WATER FROM DEWATERING OPERATIONS SHALL NOT BE DISCHARGED DIRECTLY TO ANY WETLAND OR WATERCOURSE. SUCH	USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH. SEEDING RATES MUST BE INCREASED BY 10 PERCENT WHEN HYDROSEEDING.
	ONLY WHEN APPROVED.	vi.) APPLY MULCH ACCORDING TO THE TEMPORARY MULCHING MEASURE. vii.) IF SEEDING CANNOT BE DONE WITHIN THE SEEDING DATES. USE THE TEMPORARY MULCHING MEASURE TO PROTECT THE
	ADEQUATE PROVISIONS SHALL BE TAKEN TO PROTECT ALL EXPOSED CUT AND FILL SLOPES FROM SURFACE WATER FLOW DAMAGE AND EROSION.	SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
	8). BE RESPONSIBLE FOR THE CONTROL OF DUST AND OTHER PARTICULATE MATTER RESULTING FROM CONSTRUCTION OPERATIONS. 9). TEMPORARY MATERIAL STOCKPILES SHALL BE PROTECTED FROM BOTH WATER AND WIND INDUCED EROSION.	MAINTENANCE i.) LIME ACCORDING TO A SOIL TEST OR AT A MINIMUM OF EVERY FIVE YEARS USING A RATE OF TWO TONS PER ACRE (100
	10). BE RESPONSIBLE FOR MONITORING NOAA NATIONAL WEATHER SERVICE WEATHER FORECASTS AND TAKING PROPER PRECAUTIONS TO PREVENT EROSION AND SEDIMENTATION IN ADVANCE OF RAINFALL EVENTS AND REMOVING OR SECURING ALL EQUIPMENT AND	
	MATERIALS IN ADVANCE OF ISSUED FLOOD WARNINGS.	10-10-10 OR EQUIVALENT PER ACRE (7.5 POUNDS PER 1,000 SQUARE FEET).
		iii.) WHERE LEGUMES PREDOMINATE, FERTILIZE ACCORDING TO A SOIL TEST OR BROADCAST EVERY THREE YEARS 300 POUNDS OF 0-20-20 PER ACRE OR EQUIVALENT (7.5 POUNDS PER 1,000 SQUARE FEET).
		a.) SEDIMENT IMPOUNDMENTS, BARRIERS AND FILTERS STRAW BALES SHEET FLOW APPLICATIONS INSTALLATION REQUIREMENTS
		i.) BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH THE ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.
		ii.) ALL BALES SHALL BE EITHER WIRE-BOUND OR STRING TIED. BALES SHALL BE INSTALLED SO THAT BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES TO PREVENT DETERIORATION OF THE BINDINGS.
		III.) A TRENCH SHALL BE EXCAVATED THE WIDTH OF A BALE AND THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED AND CHINKED THE EXCAVATED SOIL SHALL BE BACKET ED
		AGAINST THE BARRIER. BACKFILL SOIL SHALL CONFORM TO THE GROUND LEVEL ON THE DOWNHILL SIDE AND SHALL BE BUILT UP TO 4 INCHES AGAINST THE UPHILL SIDE OF THE BARRIER. BALES SHOULD BE PLACED 10 FEET AWAY FROM THE TOF OF SLOPES
		iv.) EACH BALE SHALL BE SECURELY ANCHORED BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH. THE BALE. THE
		HIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER. STAKES OR REBARS SHALL BE DRIVEN DEEP ENOUGH INTO THE GROUND TO SECURELY ANCHOR THE BALES.
		v.) THE GAPS BETWEEN BALES SHALL BE CHINKED (FILLED BY WEDGING) STRAW BETWEEN THEM TO PREVENT WATER FROM FLOWING BETWEEN THE BALES.
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11-29-21	REVIEW COMMENTS	LAND
11-1-21	REVIEW COMMENTS	OF
9-13-21	REVIEW COMMENTS	GEORGE C. FIELD COMPANY, INC.
8-15-21	DESCRIPTION	BOKUM ROAD ESSEX, CONNECTICUT
I	REVISIONS	

\E/ CHANNEL FLOW APPLICATIONS INSTALLATION REQUIREMENTS i.) BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE CONTOUR, WITH END ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER. ii.) THE REMAINING STEPS FOR INSTALLING A BALE BARRIER FOR SHEET FLOW APPLICATIONS APPLY HERE, WITH THE FOLLOWING ADDITION: iii.) THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELE THAN THE TOP OF THE LOWEST MIDDLE BALE TO ASSURE THAT SEDIMENT LADEN RUNOFF WILL FLOW EITHER THRC OVER THE BARRIER BUT NOT AROUND IT. MAINTENANCE i.) INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND PERIODICALLY DURING PROLONGED RAIN EVENTS AN REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED. ii.) ACCUMULATED SEDIMENT BEHIND THE BALES SHALL BE REMOVED WHEN IT REACHES 1/2 OF THE ORIGINAL HEIGH BALES. SEDIMENTATION CONTROL FENCE MATERIALS i.) GEOTEXTILE GEOTEXTILE SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE FILAMENTS AND SHAL CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS: PHYSICAL PROPERTY REQUIREMENTS FILTERING EFFICIENCY 75% (MN.) TENSILE STRENGTH AT 20% (MAX) ELONGATION EXTRA STRENGTH 50 LBS.LIN. IN. (MIN.) 30 LBS/LIN. IN. (MIN.) STANDARD STRENGTH FLOW RATE 0.3 GAL/SF/MIN (MIN.) ii.) STAKES FOR SEDIMENTATION CONTROL FENCES SHALL BE EITHER 1" X 2" WOOD OR 0.5 POUND (MINIMUM) PER LINE STEEL WITH A MINIMUM LENGTH OF 5 FEET STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM iii.) WIRE FENCE REINFORCEMENT FOR SEDIMENTATION CONTROL FENCES USING STANDARD STRENGTH MATERIAL SH MINIMUM OF 42 INCHES IN HEIGHT, A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6 IN INSTALLATION REQUIREMENTS i.) THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 30 INCHES. (HIGHER BARRIERS MAY IMPOUND VOLUMES OF WAT SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE). THE SEDIMENTATION CONTROL FENCE SHALL BE PLACED 10 AWAY FROM THE TOE OF SLOPES UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR DIRECTED. ii.) WHEN JOINTS ARE NECESSARY, GEOTEXTILE ROLL ENDS SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST MINIMUM 6" OVERLAP AND SECURELY SEALED IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS iii.) POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM DI 12 INCHES. i v.) WHEN STANDARD STRENGTH GEOTEXTILE IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS, WIRE SHALL EXTEND INTO A TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABO ORIGINAL GROUND SURFACE. v.) THE STANDARD STRENGTH GEOTEXTILE SHALL BE STAPLED, WIRED OR TIED TO THE WIRE FENCE, AND 8 INCHES OF GEOTEXTILE SHALL BE EXTENDED INTO THE TRENCH. vi.) WHEN EXTRA STRENGTH GEOTEXTILE OR BURLAP AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPOR MAY BE ELIMINATED. vii.) THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE GEOTEXTILE. MAINTENANCE i.) INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND PERIODICALLY DURING PROLONGED RAINFALL. REPAREPLACEMENT SHALL BE MADE AS REQUIRED. ii.) ACCUMULATED SEDIMENT BEHIND THE FENCE SHALL BE REMOVED WHEN IT REACHES 1/2 OF THE HEIGHT OF THE E b.) LAND GRADING i.) ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUC ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED. ii.) AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, R OR OTHER OBJECTIONABLE MATERIAL. iii.) ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR O RELATED PROBLEMS. iv.) FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS AND OTHER OBJECTIONABLE MATERIALS. v.) FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO F vi.) FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION. vii.) TOPSOILING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS FOR TOPSOILING. viii.) ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING. c.) TOPSOILING MATERIALS SITE INVESTIGATIONS SHALL BE MADE TO DETERMINE IF THERE IS A SUFFICIENT QUANTITY OF TOPSOIL OF GOOD QUA THE SITE TO JUSTIFY STRIPPING. HIGH QUALITY TOPSOIL SHALL BE FRIABLE AND LOAMY (LOAM, SANDY LOAM, SILT LO SANDY CLAY LOAM, CLAY LOAM). OTHER SOIL TYPES WITH HIGH ORGANIC CONTENT MAY BE FOUND SUITABLE AFTER TESTING. IT SHALL BE FREE OF DEBRIS, TRASH, TUMPS, ROCKS, ROOTS AND NOXIOUS WEEDS. IT SHALL GIVE EVIDEN BEING ABLE TO SUPPORT HEALTHY VEGETATION. IT SHALL CONTAIN NO SUBSTANCE THAT IS POTENTIALLY TOXIC TO I GROWTH. ALL TOPSOIL SHALL BE TESTED BY A RECOGNIZED LABORATORY TO DETERMINE THE PROPER APPLICATION OF LIME AND FERTILIZER. INSTALLATION REQUIREMENTS i.) STRIPPING OF TOPSOIL SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. THE DEPTH OF REMOVAL M DEPENDING ON THE SITE CONDITIONS. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO BEGINNING STRIPF OPERATIONS. ii.) TOPSOIL SHALL BE STOCKPILED IN SUCH A MANNER THAT NATURAL SURFACE WATER FLOW IS NOT OBSTRUCTED A OFF-SITE SEDIMENT DAMAGE SHALL RESULT. iii.) SIDE SLOPES OF STOCKPILES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL. iv.) A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES. v.) TEMPORARY SEEDING OF STOCKPILES SHALL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF THE STOCKF ACCORDANCE WITH THE TEMPORARY VEGETATIVE COVER REQUIREMENTS. vi.) PREVIOUSLY ESTABLISHED GRADES ON THE AREAS TO BE TOPSOILED SHALL BE MAINTAINED ACCORDING TO THE DRAWINGS. vii.) WHERE THE PH OF THE SUBSOIL IS 6.0 OR LESS, GROUND AGRICULTURAL LIMESTONE SHALL BE SPREAD IN ACCOP WITH THE SOIL TEST OR THE VEGETATIVE ESTABLISHMENT PRACTICE BEING USED. viii.) AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO SPREADING T TOPSOIL, THE SUBGRADE SHALL BE LOOSENED BY DISCING OR SCARIFYING TO A DEPTH OF AT LEAST 2 INCHES TO BONDING OF THE TOPSOIL AND SUBSOIL. ix.) TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVEL OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SE THE TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED TO A MINIMUM COMPACTED DEPTH OF 6 INCHES. ANY IRREGULA THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVEN FORMATION OF DEPRESSIONS OR WATER POCKETS. x.) TOPSOIL SHOULD BE COMPACTED ENOUGH TO ENSURE GOOD CONTACT WITH THE UNDERLYING SOIL AND TO OBT UNIFORM FIRM SEEDBED FOR THE ESTABLISHMENT OF A HIGH MAINTENANCE TURF. UNDUE COMPACTION IS TO BE AVOIDED AS IT INCREASES RUNOFF VELOCITY AND VOLUME, AND PREVENTS SEED GERMINATION. d.) TEMPORARY MULCHING INSTALLATION REQUIREMENTS ORGANIC MULCHES i.) ORGANIC MULCHES MAY BE USED IN ANY AREA WHERE MULCH IS REQUIRED, SUBJECT TO THE RESTRICTIONS NOT BELOW: ORGANIC MULCH MATERIALS AND APPLICATION RATES MULCHES PER ACRE PER 1000 SF STRAW OR HAY 1 1/2 - 2 TONS 70-90 LBS

1000-2000 LBS 25-50 LBS

4-6 TONS

4-6 TONS 185-275 LBS

185-275 LBS

1**-**2 CY

WOOD FIBER CORN STALKS

WOOD CHIPS

SHREDDED BARK 50-75 CY

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	MATERIALS			
INDS OF	i.) SELECT MULCH MATERI MATERIALS MAY BE USE APPLICATION	ALS BASED ON SITE CONDITIONS, AVAILABILIT D ONLY WITH THE PERMISSION OF THE APPRC	Y OF MATERIALS AND LABOR AND EQUIPMENT. OTHER WING AUTHORITY.	
=	i.) MULCH MATERIALS SHA HAND, DIVIDE THE AREA	LL BE SPREAD UNIFORMLY, BY HAND OR MAC	HINE. WHEN SPREADING STRAW OR HAY MULCH BY SQUARE FOOT SECTIONS AND PLACE 70-90 POUNDS	
LEVATION ROUGH OR	(11/2 TO 2 BALES) OF ST ANCHORING	RAW OR HAY IN EACH SECTION TO ENSURE UI	NIFORM DISTRIBUTION.	
	i.) HAY OR STRAW MULCH STRAW MULCH MAY BE	ES MUST BE ANCHORED IMMEDIATELY AFTER A ANCHORED BY TRACKING WITH CONSTRUCTION	APPLICATION TO PREVENT WINDBLOWING. HAY OR DN EQUIPMENT OR BY USING MULCH NETTING.	
AND	MAINTENANCE i.) ALL MULCHES MUST BE	INSPECTED PERIODICALLY, IN PARTICULAR AF	FTER RAINSTORMS, TO CHECK FOR RILL EROSION.	
	WHERE EROSION IS OB RAINSTORMS FOR DISL REPAIRING DAMAGE TO	SERVED, ADDITIONAL MULCH SHOULD BE APP OCATION OR FAILURE. IF WASHOUTS OR BREA THE SLOPE. INSPECTIONS SHOULD TAKE PLA	LIED. NETS SHOULD BE INSPECTED AFTER KAGE OCCUR, REINSTALL NET AS NECESSARY AFTER CE UNTIL GRASSES ARE FIRMLY ESTABLISHED.	
	GRASSES SHALL NOT B CONTROL SOIL EROSIO ORNAMENTAL PLANTIN COVERAGE OF THE SOI	E CONSIDERED ESTABLISHED UN TIL A GROUN N AND TO SURVIVE SEVERE WEATHER CONDIT GS, INSPECT PERIODICALLY THROUGHOUT THI L SURFACE. REPAIR AS NEEDED.	D COVER IS ACHIEVED WHICH IS MATURE ENOUGH TO IONS. WHERE MULCH IS USED IN CONJUNCTION WITH E YEAR TO DETERMINE IF MULCH IS MAINTAINING	
ALL BE	e.) DUST CONTROL			
	WATER			
	i.) THE EXPOSED SOIL SUF DUST.	FACE SHOULD BE MOISTENED PERIODICALLY	WITH ADEQUATE QUANTITIES OF WATER TO CONTROL	
	i.) COVER SURFACE WITH STABLE AGGREGATE.	CRUSHED STONE OR COARSE GRAVEL. IN ARE	EAS ADJACENT TO WATERWAYS USE CHEMICALLY	
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N/F OMPANY 68-7	PREPARED BY:	PROJECT: eyors, P.C.	BOKUM ROAD BUSINESS PARK BOKUM ROAD BUSINESS PARK BOKUM ROAD ESSEX, CONNECTICUT	SHEET NO.:
N/F OMPANY ³⁸⁻⁷	PREPARED BY: Civil Engineers & Land Surv Civil Engineers & Land Surv 60 Wall Street P.O. Box 708 Madison, Connecticut 06443	PROJECT: eyors, P.C. DATE: 7-1-21 SHE SCALE: 1"=40' DESIGNED: SHE	BOKUM ROAD BUSINESS PARK BOKUM ROAD ESSEX, CONNECTICUT	SHEET NO.:
N/F OMPANY ³⁸⁻⁷	PREPARED BY:	PROJECT: eyors, P.C. DATE: 7-1-21 SHE i-0708 DATE: 7-1-21 SHE SCALE: 1"=40' DESIGNED: MJO CHECKED: FIEL	BOKUM ROAD BUSINESS PARK BOKUM ROAD BUSINESS PARK BOKUM ROAD ESSEX, CONNECTICUT	sheet no.: C2.3

VARIES
VARIES
VARIES
)ER
-
1 1/2" BITUMINOUS
1 1/2" BITUMINOUS BINDER COURSE
4" PROCESSED AG 8" ROLLED GRANU

LAND OF GEORGE C. FIELD COMPANY, INC. BOKUM ROAD ESSEX, CONNECTICUT

TYPICAL ACCESS ROADWAY CROSS SECTION NOT TO SCALE





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······	PREPARED BY: Summer Hill	PROJECT:	BOKUM ROAD E BOKUM ESSEX, CON	BUSINESS PARK 1 ROAD NNECTICUT	
	Civil Engineers & Land Surveyors, P.C. 60 Wall Street P.O. Box 708 Madison, Connecticut 06443-0708 Telephone: (203) 245-0722	DATE: 7-1-21 SCALE: AS NOTED DESIGNED: MJO CHECKED:	SHEET: DET,		SHEET NO.: C3.1
••••		LJM	-	20-50	



DESIGN BASIS
BUILDING 1 WEST
1. DESIGN WASTEWATER FLOW:
OFFICE/INDUSTRIAL USE 0.1 GAL/DAY PER SF X 28,000 SF = 2,800 GAL/DAY
2. SEPTIC TANK VOLUME PROVIDED: 3,000 GAL
3. DESIGN PERCOLATION RATE: <10.1 MIN/IN
4. WASTEWATER APPLICATION RATE: 0.8 GAL/DAY/SF
5. EFFECTIVE LEACHING AREA REQUIRED:
2,800 GAL/DAY X 1 SF/0.8 GAL/DAY = 3,500 SF
6. EFFECTIVE LEACHING AREA PROVIDED:
2(64 + 64) LF GEOMATRIX GST 6218 X 14.0 SF/LF = 3,584 SF
DESIGN BASIS
BUILDING 2 EAST
1. DESIGN WASTEWATER FLOW:
OFFICE/INDUSTRIAL USE 0.1 GAL/DAY PER SF X 22,480 SF = 2,248 GAL/DAY
2. SEPTIC TANK VOLUME PROVIDED: 2,500 GAL
3. DESIGN PERCOLATION RATE: <10.1 MIN/IN

TEST PIT LOGS

TEST PITS 1-7 LOGGED BY DOANE ENGINEERING COMPANY ON 1-9-19 TEST PITS 8-11 LOGGED BY DONALD MITCHELL, R.S. OF THE TOWN OF ESSEX HEALTH DEPARTMENT ON TEST PITS 12-16 LOGGED BY R. RICHARD SNARSKI, CPSS OF NEW ENGLAND ENVIRONMENTAL SERVICES TH 1 (MP SET) TH 8

0" - 9" TOPSOIL 9" - 27" SILTY, FINE/MEDIUM SAND SUBSOIL 27" - 80" BROWN, MEDIUM SAND WITH POCKETS OF MEDIUM GRAY SAND NO LEDGE OBSERVED GROUNDWATER OBSERVED AT 68' MOTTLING OBSERVED AT 58" (FAINT) TH 2 (MP SET)

5. EFFECTIVE LEACHING AREA REQUIRED:

6. EFFECTIVE LEACHING AREA PROVIDED:

2,248 GAL/DAY X 1 SF/0.8 GAL/DAY = 2,810 SF

2(52 + 52) LF GEOMATRIX GST 6218 X 14.0 SF/LF = 2,912 SF

0" - 11" TOPSOIL 11" - 37" FINE/MEDIUM, SAND SUBSOIL 37" - 89" GRAY/BROWN, MEDIUM SAND NO LEDGE OBSERVED GROUNDWATER OBSERVED AT 84" MOTTLING OBSERVED AT 60"

TH 3 0" - 11" TOPSOIL 11" - 32" FINE, SILTY SAND SUBSOIL 32" - 50" BROWN, MEDIUM SAND, TRACE SILT (WEST SIDE) " BROWN, MEDIUM SAND, TRACE SILT (EAST SIDE) LEDGE OBSERVED AT 50" WEST SIDE 60" EAST SIDE

NO MOTTLING OBSERVED

10" - 34" FINE, SILTY SAND SUBSOIL 34" - 90" TAN MEDIUM SAND **GROUNDWATER OBSERVED AT 66**

0" - 10" TOPSOIL 10" - 42" FINE, SILTY, SAND SUBSOIL 42" - 96" TAN/BROWN, MEDIUM SAND NO LEDGE OBSERVED **GROUNDWATER OBSERVED AT 60**" (DISCOLORED GROUNDWATER) NO MOTTLING OBSERVED

TH 6 (MP SET) 0" - 10" TOPSOIL 10" - 30" FINE, SANDY SUBSOIL 30" - 50" TAN, MEDIUM SAND 50" - 87" GRAY SAND, LENS OF SILTY SAND AT 50" MOIST NO LEDGE OBSERVED

GROUNDWATER OBSERVED AT 80" MOTTLING OBSERVED AT 50" TH 7 (MP SET)

0" - 11" TOPSOII 11" - 40" FINE, SILTY SAND SUBSOIL 40" - 88" GRAY MEDIUM SAND NO LEDGE OBSERVED GROUNDWATER OBSERVED AT 77" MOTTLING OBSERVED AT 40"

0" - 8" TOPSOIL 8" - 26" DARK YELLOW BROWN LOAM FINE SAND (L 26" - 63" TAN TO GREY FINE TO MEDIUM SAND (LOO - 96" GRAY FINE SAND (DAMP ROOTS OBSERVED TO 40" NO LEDGE OBSERVED RESTRICTIVE LAYER OBSERVED AT 64" GROUNDWATER OBSERVED AT 84" POSSIBLE MOTTLING OBSERVED AT 64' DEFINITE MOTTLING OBSERVED AT 78" TH 9

0" - 8" TOPSOIL 8" - 33" DARK YELLOW BROWN FINE LOAMY SAND (33" - 68" TAN TO GREY FINE LOAMY SAND (LOOSE), VARIES-SOME MEDIUM SAND 68" - 93" GREY FINE SAND (DAMP) ROOTS OBSERVED TO 43" NO LEDGE OBSERVED **BESTRICTIVE LAYER (IBON STAIN) AT 36"** GROUNDWATER OBSERVED AT 87" POSSIBLE MOTTLING OBSERVED AT 57" DEFINITE MOTTLING OBSERVED AT 77" TH 10

0" - 10" TOPSOIL - 23" DARK YELLOW BROWN FINE LOAMY SANE 23" - 69" TAN TO GREY FINE LOAMY SAND (LOOSE) VARIES-SOME MEDIUM SAND 69" - 108" GREY FINE SAND (WET) ROOTS OBSERVED TO 40" NO LEDGE OBSERVED GROUNDWATER OBSERVED AT 87 POSSIBLE MOTTLING OBSERVED AT 52' DEFINITE MOTTLING OBSERVED AT 72"

TH 11

0" - 9" TOPSOIL 9" - 28" DARK YELLOW BROWN FINE LOAMY SAND 28" - 108" GREY LOANY FINE SAND (STRATIFIED-BE MEDIUM AND FINE) ROOTS OBSERVED TO 45" NO LEDGE OBSERVED GROUNDWATER (SEEPAGE) OBSERVED AT 94" POSSIBLE MOTTLING OBSERVED AT 57' DEFINITE MOTTLING OBSERVED AT 76"

NO GROUNDWATER OBSERVED TH 4 (MP SET)

0" - 10" TOPSOIL NO LEDGE OBSERVED NO MOTTLING OBSERVED TH 5 (MP SET)

F		G
SUBSURFACE SEWAGE DISP	OSAL SYSTEM ELEVATIONS	SUBSURFACE SEWAGE DISPOSAL SYSTEM NOTES:
BUILDING 1 WEST		1. THE SUBSURFACE SEWAGE DISPOSAL SYSTEM HAS BEEN DESIGNED IN AC
BUILDING SEWER INVERT AT EXTERIOR FACE OF FOUNDATION WALL	33.50	CONNECTICUT STATE AGENCIES CONNECTICUT PUBLIC HEALTH CODE SE THE "CONNECTICUT PUBLIC HEALTH CODE ON-SITE SEWAGE DISPOSAL RF SUBSURFACE SEWAGE DISPOSAL SYSTEMS" (TECHNICAL STANDARDS), LA
SEPTIC TANK		DISPOSAL SYSTEM SHALL REQUIRE APPROVALS FROM THE TOWN OF ESSE CONNECTICUT PUBLIC HEALTH DEPARTMENT.
INLET INVERT	33.25	2. WITH RESPECT TO THE REQUIREMENTS OF THE TECHNICAL STANDARDS,
OUTLET INVERT	33.00	DESIGN OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEMS.
DISTRIBUTION BOX		 NO DEVIATION FROM THE DRAWINGS OR SPECIFICATIONS SHALL BE ALLC ESSEX HEALTH DEPARTMENT AND THE ENGINEER.
INLET INVERT	32.83	4. CONTACT THE TOWN OF ESSEX HEALTH DEPARTMENT PRIOR TO THE STAF
OUTLET INVERT	32.75	CONSTRUCT FOR THE SUBSURFACE SEWAGE DISPOSAL SYSTEMS AND TO DURING THE PROGRESS OF THE WORK.
TOP LEACHING SYSTEM	32.67	5. CONTACT THE ENGINEER PRIOR TO THE START OF WORK TO SCHEDULE T
BOTTOM LEACHING SYSTEM TRENCH	31.00	SUBSURFACE SEWAGE DISPOSAL SYSTEMS.
		6. NOTIFY THE TOWN OF ESSEX HEALTH DEPARTMENT AND THE ENGINEER A START OF WORK AND IN ADVANCE OF ALL REQUIRED INSPECTIONS.

BUILDING 2 EAST BUILDING SEWER INVERT AT EXTERIOR 33.50

SUBSURFACE SEWAGE DISPOSAL SYSTEM ELEVATIONS

FACE OF FOUNDATION WALL		
SEPTIC TANK		
INLET INVERT	33.25	
OUTLET INVERT	33.00	
DISTRIBUTION BOX		
INLET INVERT	32.83	
OUTLET INVERT	32.75	
TOP LEACHING SYSTEM	32.67	
BOTTOM LEACHING SYSTEM TRENCH	31.00	

l 1-15 - 20	
S ON 1-15-20	

0	
	TH 12
_OOSE) DSE)	0" - 13" TOPSOIL 13" - 34" DARK YELLOWISH BROWN FINE SANDY LOAM 34" - 63" OLIVE FINE LOAMY SAND WATER OBSERVED AT 53" MOTTLING OBSERVED AT 37" PERMEABILITY SAMPLE AT 29"
	TH 13
(LOOSE)	0" - 9" TOPSOIL 9" - 34" DARK YELLOWISH BROWN FINE SANDY LOAM 34" - 83" OLIVE FINE LOAM SAND NO WATER OBSERVED POSSIBLE MOTTLING OBSERVED AT 63" PERMEABILITY SAMPLES AT 19" & 43"
	TH 14
	0" - 4" TOPSOIL 4" - 23" DARK YELLOWISH BROWN, FINE SANDY LOAM 23" - 63" OLIVE FINE SAND NO WATER OBSERVEDZ MOTTLING OBSERVED AT 33" PERMEABILITY SAMPLE AT 20"
	TH 15
) I,	0" - 9" TOPSOIL 9" - 23" DARK YELLOWISH BROWN FINE SANDY LOAM 23" - 43" OLIVE FINE SANDY LOAM LEDGE OBSERVED AT 43" MOTTLING OBSERVED AT 33"
	TH 16
)	0" - 12" TOPSOIL (FILL) 12" - 16" NATURAL TOPSOIL 16" - 44" DARK YELLOWISH BROWN FINE SANDY LOAM 44" - 57" OLIVE FINE LOAMY SAND WATER OBSERVED AT 51" MOTTLING OBSERVED AT 36" PERMEABILITY SAMPLE AT 25"
I WEEN	

- CCORDANCE WITH THE REGULATIONS OF CTIONS 19-13-B103a THROUGH 19-13-B103f AND EGULATIONS AND TECHNICAL STANDARDS FOR TEST REVISION. THE SUBSURFACE SEWAGE EX HEALTH DEPARTMENT AND THE STATE OF
- THERE ARE NO KNOWN CONFLICTS WITH THE OWED WITHOUT THE APPROVAL OF THE TOWN OF
- ART OF WORK TO OBTAIN AN APPROVAL TO ARRANGE FOR A SCHEDULE OF INSPECTIONS
- THE CONSTRUCTION STAKING OF THE
- A MINIMUM OF 48 HOURS IN ADVANCE OF THE
- 7. NOTIFY THE TOWN OF ESSEX HEALTH DEPARTMENT AND THE ENGINEER SHOULD SOIL OR GROUNDWATER CONDITIONS BE ENCOUNTERED THAT DIFFER FROM THOSE INDICATED IN THE TEST PIT LOGS PROVIDED ON THE DRAWINGS.
- 8. THE SUBSURFACE SEWAGE DISPOSAL SYSTEMS HAVE NOT BEEN DESIGNED TO ACCOMMODATE THE INSTALLATION OF GARBAGE GRINDERS WITHIN THE BUILDINGS SERVED.
- 9. WHERE LEACHNG FIELDS OR PORTIONS OF LEACHING FIELDS ARE SHOWN TO BE CONSTRUCTED IN SELECT FILL, WITHIN THE LEACHING FIELD AREAS, REMOVE TOPSOIL AND UNSUITABLE SOILS WITHIN THE HORIZONTAL LIMITS AND TO THE SELECT FILL SUBGRADE ELEVATION SHOWN ON THE DRAWINGS. DO NOT ALLOW RUBBER TIRED EQUIPMENT OR VEHICLES ON THE LEACHING FIELD SUBGRADE SOIL AREA ONCE TOPSOIL AND UNSUITABLE SOILS HAVE BEEN REMOVED. SCARIFY THE SUBGRADE SOIL AREA TO A DEPTH ADEQUATE TO REMOVE SOIL COMPACTION THAT MAY HAVE OCCURRED DURING TOPSOIL AND UNSUITABLE SOILS REMOVAL OPERATIONS.
- 10. PLACE SELECT FILL IN A MANNER THAT PREVENTS OVER COMPACTION OF THE LEACHING FIELD SUBGRADE SOIL AREA. PLACE SELECT FILL BY PUSHING THE MATERIAL IN FROM THE PERIMETER OF THE AREA USING TRACK MOUNTED EQUIPMENT, MAINTAINING AT LEAST TWELVE (12) INCHES OF SELECT FILL UNDER THE EQUIPMENT TRACKS AT ALL TIMES. PLACE SELECT FILL IN LAYERS NOT EXCEEDING TWELEVE (12) INCHES IN DEPTH (LOOSE LAYER THICKNESS). COMPACT EACH LAYER OF SELECT FILL WITH SUITABLE EQUIPMENT CAPABLE OF ACHIEVING A DRY DENISTY OF 90 PERCENT OF THE MAXIMUM DRY DENSITY FOR THE MATERIAL AS DETERMINED BY COMPACTION TESTING CONFORMING TO ASTM D1557, METHOD C
- 11. PREVENT SEDIMENT FROM ENTERING THE LEACHING FIELD AREAS DURING THE CONSTRUCTION PERIOD THROUGH THE USE OF TEMPORARY EARTH BERMS AND/OR OTHER EROSION AND SEDIMENT CONTROL MEASURES.
- 12. CONTACT THE ENGINEER PRIOR TO COVERING THE SUBSURFACE SEWAGE DISPOSAL SYSTEMS TO SCHEDULE THE RECORD FIELD SURVEY OF THE SYSTEMS.
- 13. THE COMPLETED SUBSURFACE SEWAGE DISPOSAL SYSTEMS SHALL BE COVERED AS SOON AS IS PRACTICABLE FOLLOWING THE FINAL INSPECTION BY THE TOWN OF ESSEX HEALTH DEPARTMENT AND THE ENGINEER.
- 14. THE SUBGRADE OF DISTURBED GROUND SURFACES NOT NOTED TO BE SURFACED OTHERWISE SHALL RECEIVE A SIX INCH THICKNESS OF TOPSOIL UPON WHICH TURF SHALL BE ESTABLISHED.
- 15. A RECORD DRAWING OF THE COMPLETED SUBSURFACE SEWAGE DISPOSAL SYSTEMS PREPARED BY THE ENGINEER SHALL BE SUBMITTED TO THE TOWN OF ESSEX HEALTH DEPARTMENT PRIOR TO THE ISSUANCE OF A PERMIT TO DISCHARGE WASTEWATER TO THE SUBSURFACE SEWAGE DISPOSAL SYSTEMS.
- MATERIAL REQUIREMENTS:
- 1. PRECAST CONCRETE PRODUCTS: PRECAST CONCRETE PRODUCTS SHALL MEET THE REQUIREMENTS OF THE TECHNICAL STANDARDS AND: SEPTIC TANKS, GREASE INTERCEPTOR TANKS, AND PUMP CHAMBERS: ASTM C1227 STANDARD SPECIFICATION FOR CONCRETE SEPTIC TANKS. SEALS AT PIPE AND CONDUIT PENETRATIONS SHALL BE WATERTIGHT TYPE MEETING THE REQUIREMENTS OF ASTM C1644 STANDARD SPECIFICATION FOR RESILIENT CONNECTORS BETWEEN REINFORCED CONCRETE ON-SITE WASTEWATER TANKS AND PIPE.
- LEACHING CHAMBERS: ASTM C913 STANDARD SPECIFICATION FOR PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES.
- 2. POLYVINYL CHLORIDE (PVC) PIPE: BUILDING SEWER AND FORCE MAIN PIPE: ASTM D1785 STANDARD SPECIFICATION FOR POLY(VINYL CHLORIDE) (PVC) SCHEDULES 40, 80, AND 120, SOLID WALL, WITH SOLVENT WELD FITTINGS AND JOINTS.
- EFFLUENT SEWER AND DISTRIBUTION PIPE: ASTM D3034 STANDARD SPECIFICATION FOR TYPE PSM POLY(VINYL CHLORIDE) (PVC) SEWER PIPE AND FITTINGS, STANDARD DIMENSION RATIO 35, SOLID WALL, WITH BELL AND SPIGOT RUBBER COMPRESSION GASKET FITTINGS AND JOINTS MEETING THE REQUIREMENTS OF ASTM D3212 STANDARD SPECIFICATION FOR JOINTS FOR DRAIN AND SEWER PLASTIC PIPES USING FLEXIBLE ELASTOMERIC SEALS, OR SOLVENT WELD FITTINGS AND JOINTS, AND PERFORATED WITH BELL AND SPIGOT JOINTS.
- 3. GEOTEXTILES:

A.O.S.

- NON WOVEN SEPARATION/FILTRATION FABRIC COMPRISED OF PERVIOUS SHEETS OF POLYESTER, POLYPROPYLENE, OR POLYETHYLENE FABRICATED INTO A STABLE NETWORK OF FIBERS THAT RETAIN THEIR RELATIVE POSITION WITH RESPECT FO EACH OTHER. NONWOVEN GEOTEXTILE SHALL BE COMPOSED OF CONTINUOUS OR DISCONTINUOUS (STAPLE) FIBERS HELD TOGETHER THROUGH NEEDLE-PUNCHING, SPUN-BONDING, THERMAL-BONDING, OR RESIN-BONDING. GEOTEXTILE EDGES: SELVAGED OR OTHERWISE FINISHED TO PREVENT OUTER MATERIAL FROM PULLING AWAY FROM
- GEOTEXTILE. MINIMUM AVERAGE ROLL VALUES:
- DESIGN VALUE TEST METHOD PROPERTY ENSILE STRENGTH 120 LBS ASTM D4632 ELONGATION 50% ASTM D4632 TRAPEZOIDAL TEAR 50 LBS ASTM D4533 MULLEN BURST STRENGTH 225 PSI ASTM D3786 PUNCTURE STRENGTH 65 LBS ASTM D4833 70 (US SIEVE) ASTM D4751 PERMITTIVITY 1.8 SEC-1 ASTM D4491
- ACCEPTABLE MANUFACTURERS AND TYPES: MIRAFI 65303, 65304 TERRATEX SO1.5, PO1. TYPAR 3151 3201
- 4. STONE AGGREGATE:
- CLEAN, WASHED CRUSHED OR BROKEN STONE OF THE SIZES SHOWN ON THE DRAWINGS MEETING THE GRADATION REQUIREMENTS OF SECTION M.01 AND THE REQUIREMENTS OF SECTION M.02.06 3. AND 4. REGARDING RESISTANCE TO ABRASION AND SOUNDNESS RESPECTIVELY OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 817, 2016, LATEST REVISION, INCLUDING ALL SUPPLEMENTS THERETO
- 5. <u>SAND:</u> CLEAN SAND MEETING THE PARTICLE SIZE GRADATION REQUIREMENTS OF ASTM C33 STANDARD SPECIFICATION FOR CONCRETE AGGREGATES: SIEVE SIZE PERCENT PASSING
- 3/8" 95 - 100 80 - 100 #16 50 - 85 25 - 60 #30 5 - 30 #50 #100 0 - 10 #200 0-5 6. SELECT FILL
- CLEAN, SAND OR SAND AND GRAVEL MATERIAL FREE FROM DEBRIS, ICE, SNOW, FROZEN LUMPS, VEGETATION, STUMPS, ROOTS, OR OTHER ORGANIC MATERIALS, CONTAINING NO MATERIAL LARGER THAN THE THREE (3) INCH SIEVE, AND MEETING THE FOLLOWING PARTICLE SIZE GRADATION CRITERIA:
- SIEVE SIZE PERCENT PASSING WET SIEVE DRY SIEVE 100 100 70 - 100 70 - 100 #10 ***** 10 **-** 50 #40 10 **-** 75 #100 0 - 20 0-5 #200 0-5 0 - 2.5
- * THE CRITERIA FOR THE PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN SEVENTY-FIVE (75) PERCENT IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED TEN (10) PERCENT AND THE PERCENT PASSING THE #200 SIEVE DOES NOT EXCEED FIVE (5) PERCENT.
- 7. COMMON FILL:
- CLEAN, FRIABLE, NON-PLASTIC IN-ORGANIC SOIL MATERIAL CONTAINING NO STONE GREATER THAN TWO THIRDS (2/3) OF THE REQUIRED LOOSE LIFT THICKNESS. THE MATERIAL SHALL BE FREE FROM DEBRIS, ICE, SNOW, FROZEN LUMPS, VEGETATION, STUMPS, ROOTS, OR OTHER ORGANIC MATERIALS.



Summer	Hill

Civil Engineers & Land Surveyors, P.C. 60 Wall Street P.O. Box 708 Madison, Connecticut 06443-0708 Telephone: (203) 245-0722

7-1-21	
	SHEET:
	ESSEX, CONNECTICUT
	BOKUM ROAD
	BOKUM ROAD BUSINESS PARK

FIELD BOOK

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DETAILS

PROJECT NO .:

20-50

SHEET NO .: $\frown \frown \frown$

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TBD WINTERBERRY llex verticilatta 4 FT TBD SHADBLOW SERVICEBERRY Amelanchier canadensis 4 FT BOKUM ROAD BUSINESS PARK BOKUM ROAD ESSEX, CONNECTICUT SHEET NO .: DETAILS C3.3 PROJECT NO .: FIELD BOOK: 20-50

ANNUAL RYEGRASS OR PERRENIAL RYEGRASS OR



20

2

40 TOTAL 42

WETLAND PLANT LIST

STORMWATER WETLAND 1

COMMON NAME

250

100

250

50

550

250

550

150

TBD

AMERICAN BURREED

ARROWHEAD

PICKERELWEED

SOFT STEM BULRUSH

COMMON NAME

AMERICAN BURREED

ARROWHEAD

PICKERELWEED

SOFT STEM BULRUSH

BOTANICAL NAME

RED OSIER DOGWOOD

WETLAND PLANT LIST

STORMWATER WETLAND 2

0.45

0.05

0.45

0.95

BOTANICAL NAME

Sparganium americanum

Sagittaria latifolia

Pondederia cordota

Scirpus validus

BOTANICAL NAME

Sparganium americanum

Sagittaria latifolia

Pondederia cordota

Scirpus validus

COMMON NAME

Cornus sericea

6. PERMANENT SEED MIXTURE SHALL BE AS SPECIFIED BELOW. 7. THE STORMWATER WETLANDS SHALL BE PLANTED IN ACCORDANCE WITH THE WETLAND PLANTING SCHEDULES BELOW. THE INTERIOR SLOPES OF THE STORMWATER WETLANDS SHALL BE OVERSEEDED WITH A SEED MIXTURE CONTAINING SPECIES NATIVE TO NEW ENGLAND SUCH NEW ENGLAND CONSERVATION/WILDLIFE SEED MIXTURE PROVIDED BY NEW ENGLAND WETLAND PLANTS, INC., AMHERST, MASSACHUSETTS, OR A SEED MIXTURE APPROVED BY THE PROFESSIONAL WETLAND SCIENTIST.

4. PERMANENT SEEDING SHALL BE ACCOMPLSHED BETWEEN APRIL 15 AND JUNE 15 OR AUGUST 15 AND SEPTEMBER 15 UNLESS A TEMPORARY WATERING PLAN IS SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE PROFESSIONAL WETLAND SCIENTIST. 5. SHOULD PERMANENT SEEDING NOT BE ACCOMPLISHED WITHIN THE DATES SPECIFIED ABOVE, ALL DISTURBED AREAS SHALL BE SEEDED WITH THE TEMPORARY SEED MIXTURE SPECIFIED ON THIS SHEET AND TEMPORARY STRAW MULCH SHALL BE INSTALLED AT A RATE OF 90 POUNDS PER 1,000

2. THE STORMWATER WETLAND BOTTOM ELEVATIONS MAY BE LOWERED AS DETERMINED BY THE PROFESSIONAL WETLAND SCIENTIST BASED ON FIELD CONDITIONS. 3. THE INSTALLATION OF ALL PLANT MATERIAL INCLUDING THE PLANTING LOCATIONS SHALL BE DETERMINED BY THE PROFESSIONAL WETLAND SCIENTIST.

STORMWATER WETLAND CONSTRUCTION NOTES: 1. THE CONSTRUCTION OF THE STORMWATER WETLANDS SHALL BE OVERSEEN BY A PROFESSIONAL WETLAND SCIENTIST.

SIZE

4 FT







VERTICAL SECTION

FLOW DIVERSION MANHOLE NOT TO SCALE

LAND OF GEORGE C. FIELD COMPANY, INC. BOKUM ROAD ESSEX, CONNECTICUT

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CHECKED:

L.IM

FIELD BOOK

20-50



LAND OF GEORGE C. FIELD COMPANY, INC. BOKUM ROAD ESSEX, CONNECTICUT





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VAN RESERVED PARKING STALL

1. ALL LINES SHALL BE 4" WIDE, COLOR-WHITE.



R7/R7-8P (31-0662/31-0648) SIGN NO .: SIZE: 12" x 24"/12" x 6" MOUNTING HEIGHT: 5'-0"

NOTE:

RESERVED PARKING SPACE SIGNS NOT TO SCALE

VAN ACCESSIBLE SUBPLATE INSTALLED AT VAN RESERVED PARKING STALLS ONLY.



- WEARING COURSE SURFACE

SHEET NO .:

C3.5

SECTION

BITUMINOUS CONCRETE LIP CURBING NOT TO SCALE



PROJECT NO .:

20-50



ESIGNED

HECKED:

MJO

L.IM

FIELD BOOK:





SIGN NO .: R1 (31-0552) SIZE: 30" X 30" MOUNTING HEIGHT: 5'-0"

STOP SIGN NOT TO SCALE







CTDOT **STANDARD SHEET OFFICE OF ENGINEERING**

CONTROL RELEASE TIMBER (CRT) POST 6' - 0" LONG



12" WOOD BLOCKOUT



GENERAL NOTES:

1. W6 x 9 POSTS MAY BE USED IN PLACE OF W6 x 8.5 POSTS.

2. W-BEAM GUIDERAIL SHALL USE CLASS A (12 GAUGE), TYPE II W-BEAM RAIL ELEMENTS. 3. SEVEN FOOT LONG STEEL POSTS (W6 X 8.5) ARE TO BE INSTALLED WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. 4. ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES

W-BEAM DELINEATOR INSTALLATION NOTES:

1. INSTALL W-BEAM DELINEATORS ON RAIL THAT IS PARALLEL TO AND NOT GREATER THAN 8' FROM THE EDGE OF THE ROADWAY. A MINIMUM OF THREE W-BEAM DELINEATORS SHALL BE INSTALLED ON ANY LENGTH OF GUIDERAIL.

2. THE SPACING OF W-BEAM DELINEATORS IS 50 FEET, INSTALLED AT RAIL SPLICE LOCATIONS. SPACING IS 25 FEET ON RADII LESS THAN 300 FEET.

3. NO W-BEAM DELINEATORS ARE PERMITTED WITHIN 75 FEET OF THE IMPACT HEAD OF ANY TANGENTIAL OR FLARED IMPACT ATTENUATION SYSTEM.

4. RETROREFLECTIVE SHEETING SHALL BE WHITE EXCEPT ON THE LEFT SIDE OF DIVIDED STREETS, HIGHWAYS, RAMPS, AND ONE WAY ROADS IN THE DIRECTION OF TRAVEL WHERE IT SHALL BE YELLOW.

W- BEAM RAIL ELEMENT - SPLICE BOLT **W-BEAM DELINEATOR**

INSTALLATION

ARD SHEE	T TITLE:			STANDARD SHEET NO.:	
	MASH	W-BEAM	HARDWARE	HW-910_20	
				C3.7	









STATE OF CONNECTICUT	SUBMITTED BY:	NAME/DATE/TIME:	CTDOT STANDARD SHEET
Filename: CTDOT_HIGHWAY_STD_[_1-23-19_].dgn Model: 282 - HW-911_01	-		OFFICE OF ENGINEERING





