

E&S Site Narrative

SITE CONSTRUCTION CONSISTS OF DEVELOPMENT OF TWO SINGLE FAMILY DWELLINGS ON A 4.207 AC. SITE INCLUDING INSTALLATION OF DRIVEWAYS, FOUNDATIONS, ON-SITE LEACH FIELDS, WATER SERVICE LINES, RUNOFF DETENTION FEATURES AND RESULTING GRADING. THE SITE IS PRESENTLY A CLEARED FIELD AND NO TIMBER CLEARING WILL BE REQUIRED. THE TOTAL ESTIMATED DISTURBANCE ON THE SITE IS 1.3 ACRES. NO MAJOR FILLING WILL BE REQUIRED SINCE THE SITE HAS RELATIVELY GENTLE TOPOGRAPHY. ALL E&S CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO ANY SITE DISTURBANCE AND ARE TO REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.

EROSION AND SEDIMENTATION CONTROL PLAN NARRATIVE

RESPONSIBLE PARTY: PAUL JACQUES (860)324-7285.

IN ORDER TO PREVENT DAMAGE TO NEARBY SENSITIVE AREAS, DEVELOPMENT OF THIS SITE SHALL COMPLY WITH PUBLIC ACT 83-388. THE DEVELOPER SHALL COMPLY WITH THE PROCEDURES AND CONTROL MEASURES DETAILED IN THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. THE FOLLOWING GENERAL PRINCIPLES ARE TO BE FOLLOWED TO PROVIDE AN EFFECTIVE EROSION AND SEDIMENTATION CONTROL PROCEDURE.

- 1. KEEP LAND DISTURBANCE TO A MINIMUM. PLAN THE PHASES OF DEVELOPMENT SO THAT ONLY THE AREAS WHICH ARE ACTIVELY BEING DEVELOPED ARE EXPOSED. ALL OTHER AREAS SHOULD HAVE NATURAL VEGETATION PRESERVED, HAVE A GOOD COVER OF TEMPORARY OR PERMANENT VEGETATION ESTABLISHED, OR BE HEAVILY
- MULCHED. 2. STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT MEASURES AS
- QUICKLY AS POSSIBLE AFTER THE LAND IS DISTURBED. 3. KEEP RUNOFF VELOCITIES LOW BY KEEPING SLOPE LENGTHS SHORT, GRADIENTS
- GENTLE, AND PRESERVING INTERMITTENT AREAS OF VEGETATIVE COVER. 4. PROTECT DISTURBED AREAS BY PREVENTING RUNOFF FROM DRAINING THROUGH
- THEM. USE UPHILL DIVERSIONS WHERE PRACTICAL. 5. INSTALL PERIMETER CONTROL MEASURES (SILT FENCE / HAY BALES). THIS PRACTICE MOST EFFECTIVELY ISOLATES THE DISTURBED AREA FROM ADJACENT AREAS TO BE PROTECTED. EXTENSIVE USE OF SILT FENCE IS RECOMMENDED BOTH TO

DETAIN RUNOFF AT EXPECTED DISCHARGE AREAS AND AS INSURANCE TO MINIMIZE

- DAMAGE SHOULD THE PREDCEING MEASURES FAIL. 6. PERIODICALLY CHECK AND MAINTAIN THE E & S CONTROL MEASURES DURING THE CONSTRUCTION PERIOD ESPECIALLY PRIOR TO EXPECTED STORMS.
- 7. ASSIGN THE RESPONSIBILITY FOR IMPLEMENTATION AND MAINTENANCE OF E & S CONTROL MEASURES TO ONE PERSON AT THE CONSTRUCTION SITE. PROVIDE THE TOWN WITH THAT PERSON'S WORK AND HOME PHONE NUMBERS IN CASE OF EMERGENCY.

HOUSE SITE DEVELOPMENT

THE FOLLOWING PROCEDURES FOR PARCEL DEVELOPMENT ARE RECOMMENDED: 1. THE LIMITS OF DEVELOPMENT SHOULD BE ESTABLISHED IN THE FIELD FOR THE PROPOSED HOUSE SITE. DISTURBANCE LIMITS OF 25-35 FT. BEYOND THE PHYSICAL DIMENSIONS OF THE STRUCTURE ARE RECOMMENDED.

- 2. ALL DRIVEWAYS AND SHOULDERS SHOULD BE STABILIZED IMMEDIATELY UPON COMPLETION OF ROUGH GRADING. SHOULDER SEED BED PREPARATION SHOULD FOLLOW THE GENERAL NOTES PROVIDED. HAY BALES OR FILTER FABRIC SHOULD BE USED TO ENTRAP ANY SEDIMENT GENERATED FROM EXPOSED SOIL SURFACES. DRIVEWAY ROADBEDS SHALL BE STABILIZED WITH COMPACTED ROAD AGGREGATE AS SOON AS POSSIBLE.
- 3. TOPSOIL AND EXCAVATED SUBSOIL FROM THE FOUNDATION AREA SHOULD BE STOCKPILED WITHIN THE AREA OF DISTURBANCE IF NOT USED FOR ON-SITE REGRADING. EACH STOCKPILE MUST BE ADEQUATELY RINGED WITH SEDIMENT CONTROL MATERIAL (I.E., HAY BALES AND/OR SILT FENCE).
- 4. ANY ADDITIONAL STOCKPILING OF LUMBER OR BUILDING MATERIALS SHOULD ALSO BE CONFINED TO THE AREA OF DISTURBANCE. SIMILARLY, VEHICULAR MOVEMENT SHOULD BE DIRECTED TO ESTABLISHED PARKING AREAS. 5. UPON 50% COMPLETION OF DWELLING CONSTRUCTION, ALL RAW SOIL AREAS SURROUNDING THE HOUSE SITES SHOULD BE FINE GRADED AND MULCHED.

SHALL BE COMPLETED AT THIS STAGE.

PAVING AS REQUIRED BY TOWN/CITY/STATE-

IDENTIFICATION TAPE

PIPE DIA.-

INSTALLATION OF GROUNDWATER CONTROL SYSTEMS, CURTAIN DRAINS WITH LEVEL SPREADERS/INFILTRATION TRENCHES AND/OR ENERGY DISSIPATORS,

GENERAL NOTES

SEED BED SITE PREPARATION FINE GRADE AND RAKE SOIL SURFACE TO REMOVE STONES LARGER THAN 2" IN DIAMETER. INSTALL SEEDED EROSION CONTROL DEVICES SUCH AS SURFACE WATER DIVERSIONS. APPLY LIMESTONE AT A RATE OF 2 TON/ACRE. OR 90 LBS./1000 SQ.FT. FERTILIZE WITH 10-10-10 AT A RATE OF 300 LBS./AC. OR 11 LBS./1000 SO.FT. WORK LIME AND FERTILIZER INTO SOIL UNIFORMLY TO A DEPTH OF 4" WITH A WISK, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT FOLLOWING THE CONTOUR LINES.

APPLY SEED MIXTURE FROM CHART BELOW BY HAND, CYCLONE SEEDERS OR HYDROSEEDER. INCREASE SEED MIXTURE BY 10% IF HYDROSEEDER IS USED. LIGHTLY DRAG OR ROLL THE SEEDED SURFACE TO COVER SEED. SEEDING SHOULD BE DONE BETWEEN THE TIMES SHOWN ON THE CHART BELOW. IF SEEDING CANNOT BE DONE DURING THESE TIMES, REPEAT MULCHING PROCEDURE BELOW UNTIL SEEDING CAN TAKE PLACE.

MULCHING IMMEDIATELY FOLLOWING SEEDING, MULCH THE SEEDED SURFACE WITH STRAW OR HAY AT A RATE OF 1.5 TO 2 TONS/AC. SPREAD MULCH BY HAND OR MULCH BLOWER. PUNCH MULCH INTO SOIL SURFACE WITH TRACK MACHINE OR DISK HARROW SET STRAIGHT UP. MULCH MATERIAL SHOULD BE "TUCKED" APPROXIMATELY 2-3" INTO THE SOIL SURFACE.

ALL MATERIALS SHALL BE INSPECTED, APPROVED AND SITE LOCATED BY THE LANDSCAPE ARCHITECT OR ENVIRONMENTAL SUPERVISOR. ALL MATERIALS SHALL BE PLANTED PER SPECIFICATIONS AND DETAILS TO BE PROVIDED BY THE LANDSCAPE ARCHITECT OR ENVIRONMENTAL SUPERVISOR.

SEED SELECTION

<u>USE</u> PERMANENT LAWN	LB./1000 S.F. 0.45 0.45 0.10 1.00	SEED MIXTURE KENTUCKY BLUEGRASS CREEPING RED FESCUE PERENNIAL RYEGRASS	<u>SEEDING DATES</u> 04/15 — 06/15 08/15 — 09/15
SLOPES & COARSE LAWN	0.45 0.05 0.45 0.95	CREEPING RED FESCUE REDTOP TALL FESCUE	n
SLOPES (NO MOWING)	0.45 0.05 0.35	CREEPING RED FESCUE REDTOP CROWN VETCH WITH INOCULANT	n
DETENTION BASIN	0.35 0.10 0.25	REED CANARY GRASS REDTOP BIRD'S FOOT TREFOIL W/INOCULANT	n
TEMPORARY COVER	3.00 1.00	WINTER RYE OR ANNUAL RYEGRASS	04/15 - 06/15 08/15 - 10/15

EROSION AND SEDIMENTATION CONTROL SCHEDULIN	EBASIAN	4 N D	CEDIMENITATIONI	CONTROL	SCHEDIII ING
	EKUSIUN	AND	SEDIMENTATION	CONTINUL	SCHLDULING

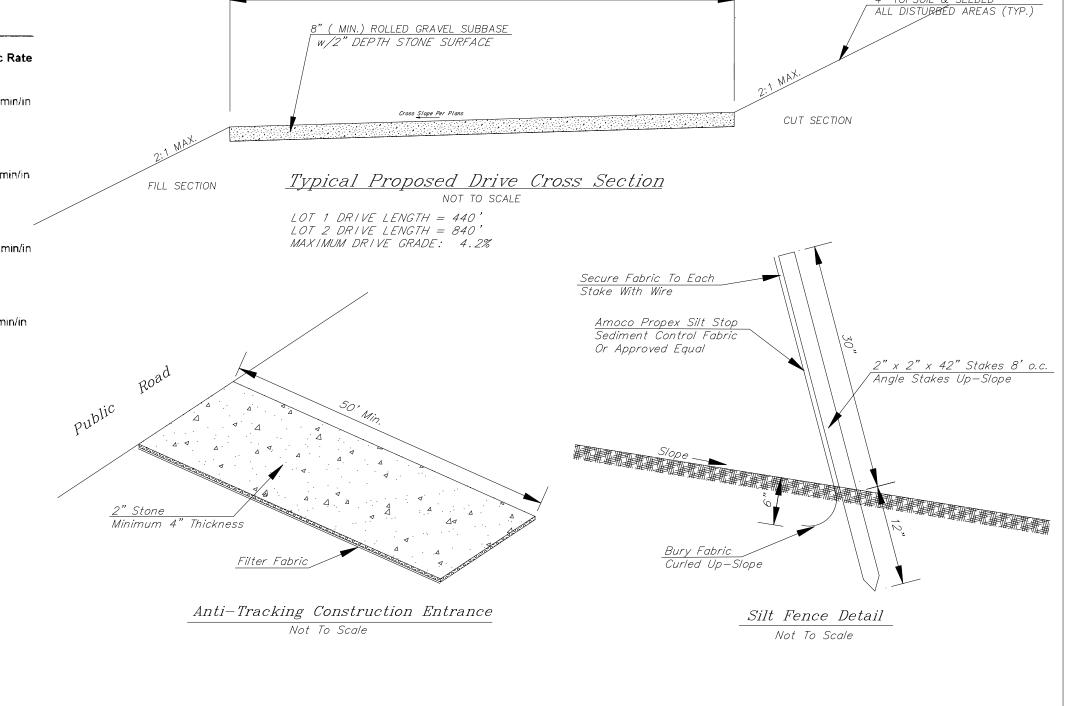
ACTIVITY	ANTICIPATED
INSTALLATION OF	<u>COMPLETION TIME</u> (Each Site)
SILT FENCES	2 DAYS
ROUGH-IN DRIVEWAY	4 DAYS
INSTALL WATER SERVICE	6 DAYS
INSTALL DRIVE INFILT. UNIT & BERM	1 047
UNII & BERM	1 DAY
SEED & STABILIZE SLOPES ALONG DRIVEWAY	3 DAYS
CELLAR HOLE EXCAVATION	3 DAYS
BACKFILL FOUNDATION	3 DAYS
CONSTRUCT LEACH FIELD	5 DAYS
FINISH GRADE DRIVEWAY	4 DAYS
FINAL GRADING	4 DAYS
LOAM, FERTILIZE AND SEED ALL DISTURBED AREAS	6 DAYS

Lot#	Date	Test hole	Test Hole Depth	Depth Ground Water	Mottling		Material	H	Perc ole #	Depth Perc Ho	Per	c Rate
	5/19/2016	1	8 O [.]	none noted	none noted	0 - 1.0' 1.0' - 3.1 3 1' - 8.0			P1	29"	9.8	min/in
		2	8.0'	none noted	none noted	0 - 1.0' 1.0' - 2.6 2.6' - 8.0	•		P2	29"	<1	min/in
		3	9.0'	none noted	none noted	0 - 1 8' 1.8' - 2.7 2.7' - 9.0			P3	28"	7 6	min/in
		4	8'	none noted	none noted	0 - 2.3' 2.3' - 3.4 3.4' - 8.0	,		P4	24"	4 1	min/in
		5	8 0'	none noted	none noted	0 - 1.1' 1.1' - 1.8 1.8' - 2.6 2.6' - 8.0	Dark Brown Sand	es				
		6	8.0'	none noted	none noted	0 - 1.3' 1.3' - 2.2 2 2' - 8.0		es				
Lot	# Date	Test hole	Test Hole Depth	Depth Ground Water	Mottling		Material	Perc Hole#	Dep Perc I	PAR	: Rate	
		7	8 0'	none noted	none noted	.9' - 1 4' 1 4' - 1 7' 1 7' - 2.4'	Plowed Light Brown Fine Sandy Loam Dark Brown Sand, Gravel Dark Brown Fine Sand Dark Brown Sand, Gravel, Cobbles					

Test Pits

181 Main St. (rear)

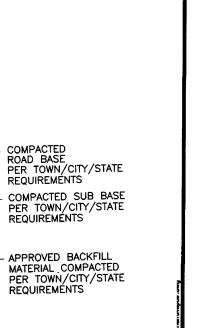
0 - .9' Plowed 8.0' none noted none noted 9' - 1.5' Light Brown Fine Sandy Loam 1.58' - 8.0' Dark Brown Sand, Gravel, Cobbles COLLAPSING



16' Min. Drive Width

RESTRICTIVE LAYER >60"; MLSS NOT APPLICABLE.

DWELLINGS TO B 4 BEDROOM WITH MINIMUM OF 660 SQ.FT. LEACHING FIELD AREA.

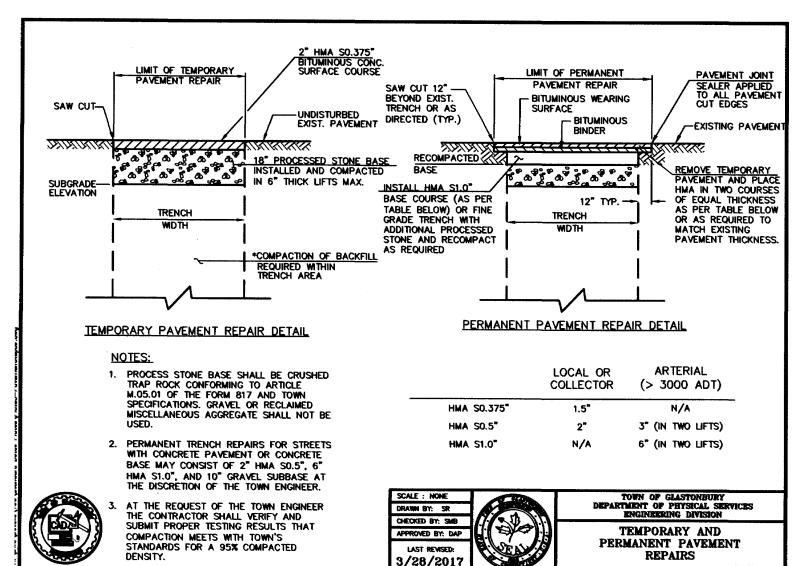


APPROVED BANK

GRAVEL COMPACTED IN 6" LIFTS TO 2' ABOVE TOP OF PIPE

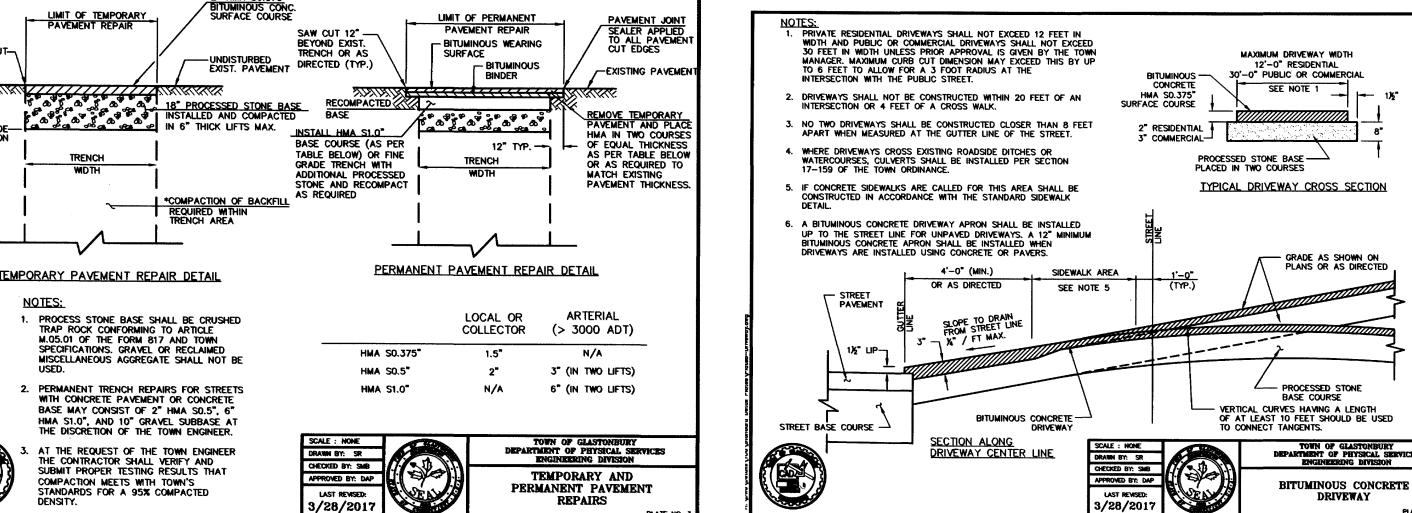
TYPICAL WATER MAIN TRENCH CROSS SECTION

1'-6" MIN.



LOCATION AND LIMITS OF ALL PAVEMENT CUTS WILL BE AS DETERMINED BY AFFECTED UTILITIES AND COORDINATED WITH STATE

RECHARGER 100HD HEAVY DUTY CHAMBER



4" (Mig.) - TOPSON

FINISHED GRADE

Site and Runoff Control Installation and Maintenance This Site Design Plan consists of development of two Residential Sites on a Four+ Acre site. The sites are to be served, in part, by a shared access drive

Infiltration Level Spreader

Not To Scale

And on-site sanitary systems.

TO BE LEVEL

Construction Phase
Initial construction will encompass installation of access drives. Prior to commencement of this activity, all E&S measures as noted on plans shall be installed. All Topsoil stripped shall be stockpiled and protected by E&S controls. Detailed Site Plans will be submitted for each dwelling site and will incorporat Grading, E&S and runoff measures for the sites. All disturbed areas, particularly driveway slopes. Level spreaders and berm area shall be stabilized as soon as possible

Post Construction

All level spreaders are to be cleaned of any silt and slopes stabilized. All Disturbed Areas are to be topsoiled, seeded and covered with hay mulch. After dwelling occupation, all level spreaders are to be inspected annually and after Significant storm events for any silt or sediment buildup and any excessive buildup to he removed and slopes stabilized with seeding and hav mulch. Driveway and herm Slopes are to be continually monitored and stabilized as necessary. It may be necessary to supplement E&S measures after construction has been completed to ensure the integrity of site as directed by Town Staff.

Level Spreader Maintenance Schedule

- 1. During Site Construction, and particularly after significant Events, Level spreader to be inspected for Silt Buildup and Silt Removed and
- Base scarified as necessary. 2. Upon Completion of Site Construction Spreaders to be inspected,
- Cleaned and scarified as necessary. 3. During Site Occupation, Spreaders to be inspected annually and afte ificant events and cleaned, base scarified and slopes stabilized
- The main purpose of Spreaders is to infiltrate runoff and the importance of keeping silt barrier removed cannot be over emphasized.

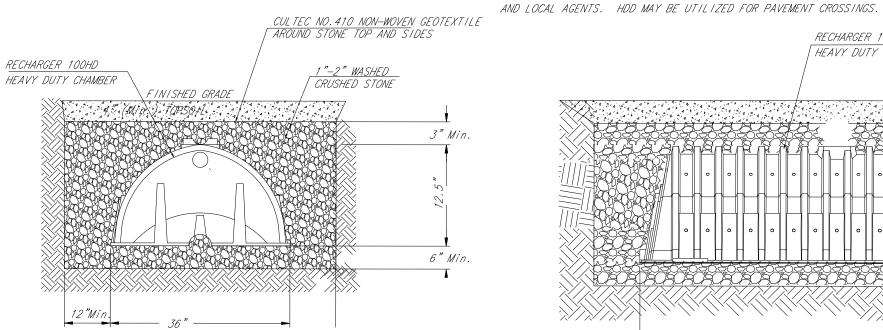
REVISIONS

Mihok,

Rich Consul 18 Lauri Marlbor (860) 23

DOROTHY'S PLACE	RR / GW-1	COMPLIANCE WITH ALL REQUIREMENTS OF	THE SAID SUBDIVISION REGULATIONS.
SUBDIVISION NAME	ZONE	TOWN PLAN & ZONING COI	MM/SSION APPROVAI
JACQUES DEVELOPMENT, LLC.		DOROTHY'S PLACE SUBDIVISION	VIVITSSIGIV 711 1 1 1 C V71E
SUBDIVIDER		JACQUES DEVELOPMENT, LLC.	RR / GW-1
P.O. BOX 327 S. GLASTONBURY, C	T 06073-0327	PROJECT / APPLICANT	ZONE
ADDRESS		181A MAIN STREET	
		PROJECT ADDRESS	
SUBDIVISION APPROVAL DATE	PLAN AND ZONING COMMISSION CHARIMAN	6.8	
		SPECIAL PERMIT SECTION	TPZ CHAIRMAN
COMPLETION DATE FOR SUBDIVISION	DIRECTOR OF COMMUNITY DEVELOPMENT		
IMPROVEMENTS		SPECIAL PERMIT APPROVAL DATE	COMMUNITY DEVELOPMENT DIRECTOR
	TOWN ENGINEER		

TOWN COMMENTS 04-27-2020 DATE: 11-25-2019 SCALE: NO SCALE SHEET 3 OF 3



<u>Cross Section</u>

Cultec Recharger 100HD Heavy Duty Chamber