

SITE LOCATION MAP
SCALE: 1"=1,000'

CHURCHILL SUBDIVISION 31 HOPEWELL RD.

PREPARED FOR
CONTRAIL, LLC
GLASTONBURY, CONN.

INDEX TO SHEETS

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APPLICANT
CONTRAIL, LLC
C/O BRADLEY CHURCHILL
85 DUG RD
SOUTH GLASTONBURY, CONN. 06073

ZONE: VILLAGE RESIDENTIAL/GW-1

TOTAL AREA=40,802 S.F.
=0.936 AC.

TOWN PLAN & ZONING COMMISSION APPROVAL	
CHURCHILL SUBDIVISION	VILLAGE RESIDENTIAL/GW-1
SUBDIVISION NAME	ZONE
CONTRAIL, LLC	
SUBDIVIDER	
SUBDIVISION APPROVAL DATE	PLAN & ZONING COMMISSION CHAIRMAN
COMPLETION DATE FOR SUBDIVISION IMPROVEMENTS	COMMUNITY DEVELOPMENT DIRECTOR
FILE NO.	TOWN ENGINEER

THIS MAP IS NOT VALID IF MODIFIED IN ANY WAY AND/OR DOES NOT BEAR THE EMBOSSED SEAL OF THE UNDERSIGNED

I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAN IS SUBSTANTIALLY CORRECT.

MARK W. FRIEND P.E. # 13818

MEGSON, HEAGLE & FRIEND
CIVIL ENGINEERS & LAND SURVEYORS, LLC
81 RANKIN ROAD
GLASTONBURY, CONN. 06033
PHONE (860)-659-0587

COVER SHEET
CHURCHILL SUBDIVISION
PREPARED FOR
CONTRAIL, LLC
SOUTH GLASTONBURY, CONN.

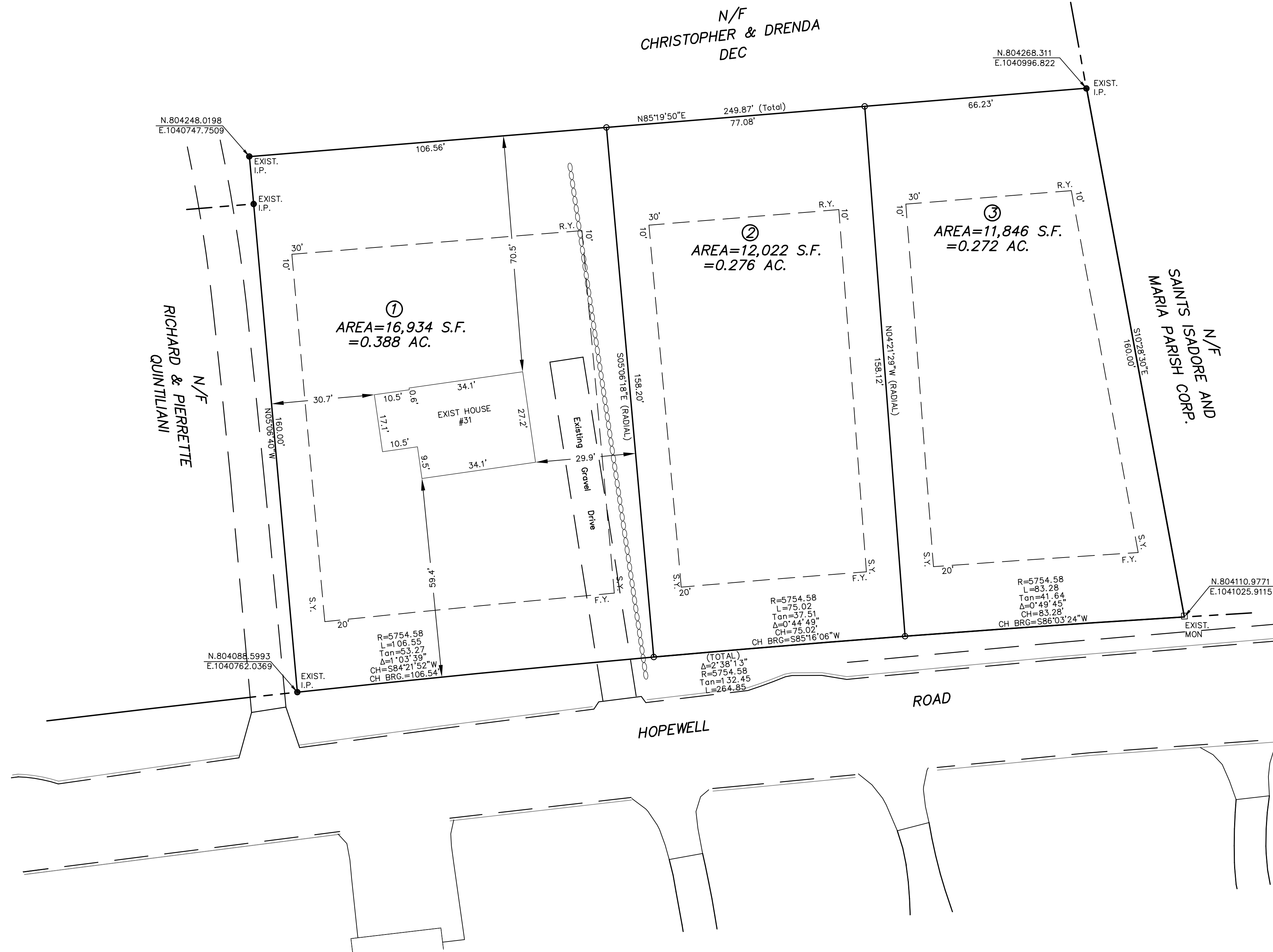
CK. BY: MWF
DRW. BY: TCJ
DATE: 5-6-21
SCALE: NONE
SHEET 1 OF 6
MAP NO. 129-20-1CS

BEARINGS AND COORDINATES REFER TO THE NAD 83 COORDINATE SYSTEM.

THE SUBDIVISION REGULATIONS OF THE TOWN OF GLASTONBURY TOWN PLAN & ZONING COMMISSION ARE A PART OF THIS PLAN AND APPROVAL OF THIS PLAN IS CONTINGENT ON COMPLIANCE WITH ALL REQUIREMENTS OF SAID SUBDIVISION REGULATIONS.

ABUTTING PROPERTIES ARE ZONED VILLAGE RESIDENTIAL & GW-1

WARNING: THESE PLANS NOT TO BE USED FOR LOCATION OF UNDERGROUND UTILITIES - CALL BEFORE YOU DIG 1-800-922-4455 TWO WORKING DAYS BEFORE YOU DIG.



LEGEND

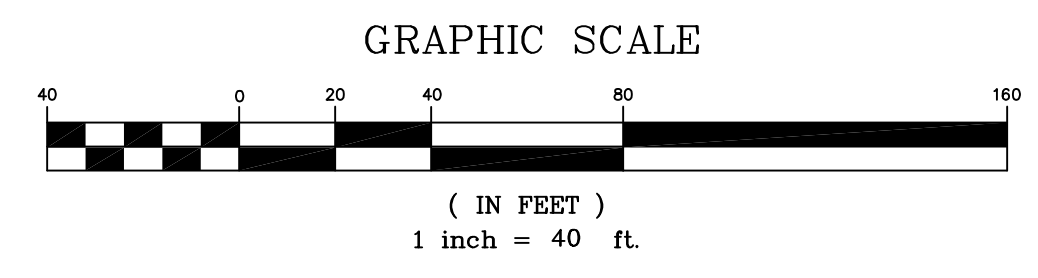
- EXISTING MONUMENT
- EXISTING IRON PIN
- PROPOSED IRON PIN
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- EXIST. I.P.

APPLICANT
CONTRAIL, LLC
 C/O BRADLEY CHURCHILL
 85 DUG RD
 SOUTH GLASTONBURY, CONN. 06073

ZONE: VILLAGE RESIDENTIAL
 GROUNDWATER PROTECTION ZONE 1 (GW1)

TOTAL AREA=40,802 S.F.
 =0.936 AC.

TOWN PLAN & ZONING COMMISSION APPROVAL	
CHURCHILL SUBDIVISION	VILLAGE RESIDENTIAL/GW-1
SUBDIVISION NAME	ZONE
BRAD CHURCHILL	
SUBDIVIDER	
SUBDIVISION APPROVAL DATE	PLAN & ZONING COMMISSION CHAIRMAN
COMPLETION DATE FOR SUBDIVISION IMPROVEMENTS	COMMUNITY DEVELOPMENT DIRECTOR
FILE NO.	TOWN ENGINEER



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REFERENCE MADE TO MAPS TITLED:
 PREPARED FOR AMY L PRATT GLASTONBURY, CONN BY MEGSON & HYPPA CIVIL ENGINEERS GLASTONBURY, CONN SCALE 1"=40' DATE: 7-2-85 MAP NO: 44-65-2
 *SUBDIVISION PLAN MAIN STREET-HOPEWELL ROAD SUBDIVISION PREPARED FOR ROBERT & VICTORIA SAGLIO GLASTONBURY, CONN. BY MEGSON & HEAGLE CIVIL ENGINEERS AND LAND SURVEYORS DATE: 10-23-89 SCALE: 1"=20' MAP NO: 90-89-1S
 *TOWN OF GLASTONBURY RIGHT OF WAY-HOPEWELL ROAD GLASTONBURY, CONN BY MEGSON & HYPPA CIVIL ENGINEERS GLASTONBURY, CONN SCALE 1"=40' DATE: 3-21-81 MAP NO: 69-60-1 SHEET 1 OF 6
 *TOPOGRAPHIC MAP PREPARED FOR SAINT AUGUSTINE'S CHURCH CORPORATION GLASTONBURY, CONN BY JOHN J. MOZZOCHI & ASSOCIATES CIVIL ENGINEERS GLASTONBURY, CONN MAP NO: 69-92 SCALE 1"=20' DATE 11-25-69

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS SURVEY WAS PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTION 20-300b-1 THE STATE OF CONNECTICUT. THIS SURVEY AND MAPS IN THE STATE OF CONNECTICUT, HAS BEEN APPROVED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC., ON SEPTEMBER 26, 1996.
 TYPE OF SURVEY: SUBDIVISION MAP
 BOUNDARY DETERMINATION CATEGORY: DEPENDENT RESURVEY/ORIGINAL SURVEY
 CLASS OF ACCURACY: A-2
 JOHN L. HEAGLE L.S. # 9396

MEGSON, HEAGLE & FRIEND
 CIVIL ENGINEERS & LAND SURVEYORS, LLC
 81 RANKIN ROAD
 GLASTONBURY, CONN. 06033
 PHONE (860)-659-0587

SUBDIVISION PLAN
CHURCHILL SUBDIVISION
 PREPARED FOR
CONTRAIL, LLC
 SOUTH GLASTONBURY, CONN.

CK. BY:	JLH
DRW. BY:	TCJ
DATE:	5-6-21
SCALE:	1"=20'
SHEET	2 OF 6
MAP NO.	129-20-1S

NOTES.
 TOPOGRAPHY TAKEN FROM ACTUAL FIELD SURVEY AND TOWN OF GLASTONBURY TOPOGRAPHIC MAPS.
 VERTICAL DATUM REPRESENTS NAVD 88.
 ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WITH TOWN OF GLASTONBURY SPECIFICATIONS OR AS DIRECTED BY THE TOWN ENGINEER.
 NOTE: THE CONTRACTOR SHALL NOTIFY THE TOWN OF GLASTONBURY ENGINEERING DIVISION 24 HOURS PRIOR TO BEGINNING ANY STORM DRAINAGE, SANITARY SEWER INSTALLATION, ROADWAY PREPARATION, PAVING, SIDEWALK, CURBING, OR ANY EXCAVATION IN THE TOWN RIGHT-OF-WAY TO SCHEDULE INSPECTIONS. THE DIVISION CAN BE REACHED BETWEEN 8:00-4:30 PM MONDAY THRU FRIDAY AT (860) 652-7735.
 RIGHTS TO DRAIN FROM LOT TO LOT RESERVED ON ALL LOTS
 LOTS SERVED BY PUBLIC WATER SUPPLY & SEWERS

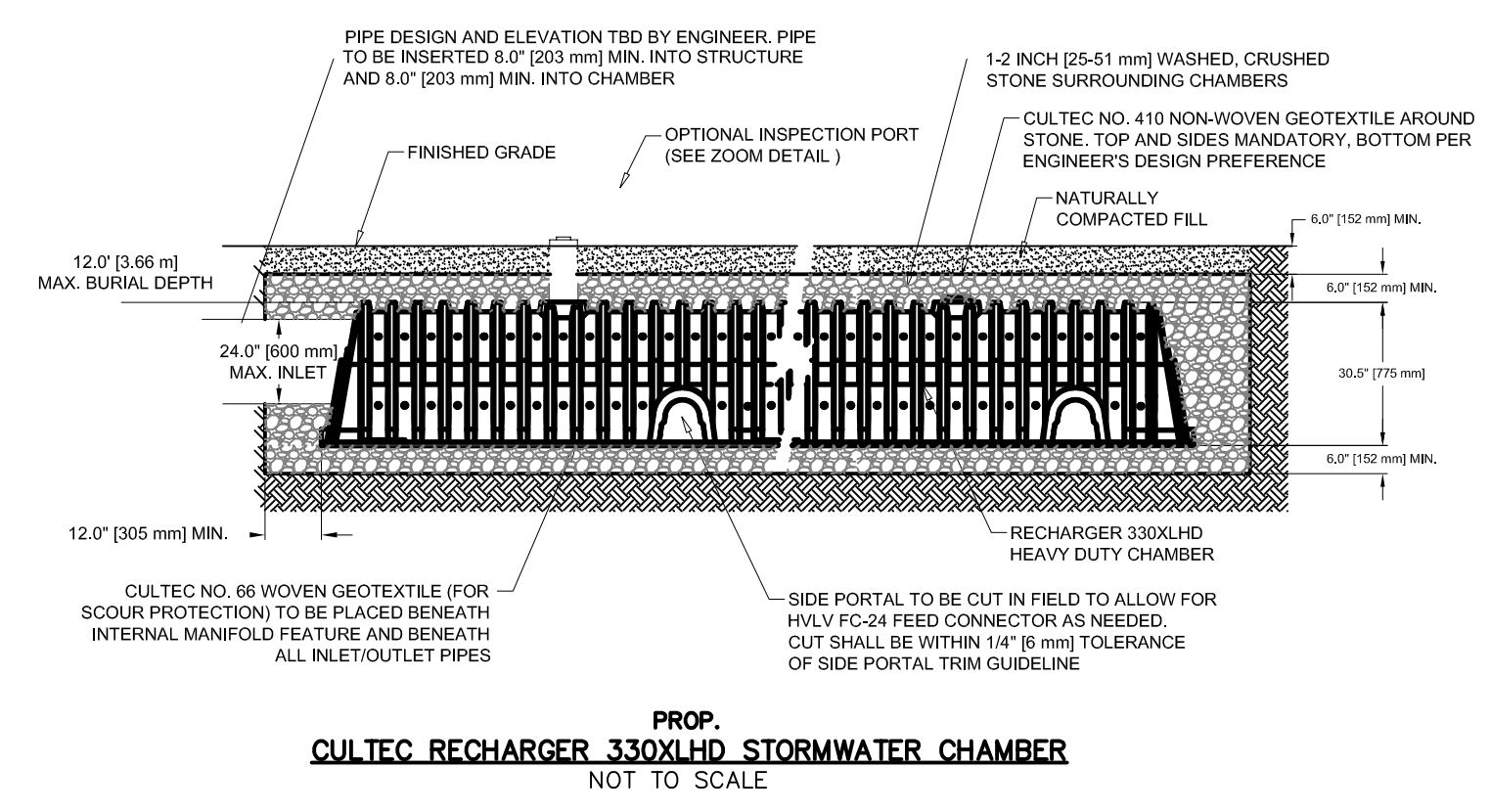
WARNING: THESE PLANS NOT TO BE USED FOR UNDERGROUND UTILITIES - CALL BEFORE YOU DIG 1-800-922-4455 TWO WORKING DAYS BEFORE YOU DIG.

GENERAL NOTES
 ALL CONSTRUCTION METHODS TO CONFORM TO CONN. D.O.T. FORM 818 AND/OR THE TOWN STANDARD SPECIFICATIONS.
 THE LOCATION OF ALL EXISTING UTILITIES SHOWN IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATION OF EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND FOR COORDINATING EXISTING OF PROPOSED AND EXISTING UTILITIES.
 ALL UNDERGROUND UTILITIES TO BE INSTALLED/DIRECTED BY APPROPRIATE AUTHORITIES.
 FOUNDATION DRAINS SHALL BE DEPICTED ON ALL PLOT PLANS.

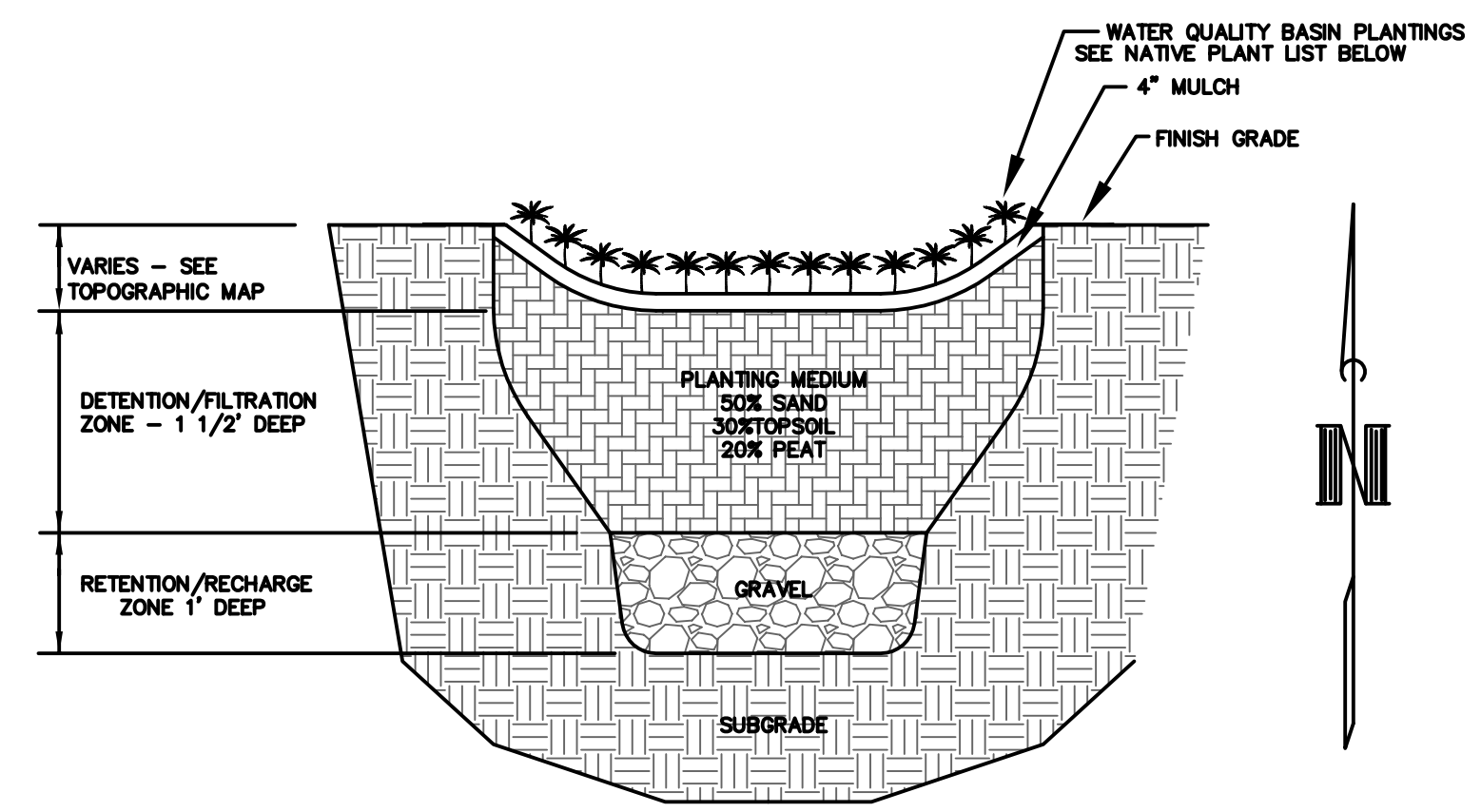
RAIN GARDEN DESIGN
 LOT 1
 AREA TO RAIN GARDEN = 4000 S.F.
 IMPERVIOUS AREA = 750 S.F. (DRIVEWAY)
 REQUIRED W.Q.V. = 72 C.F.
 LOTS 2 & 3
 AREA TO RAIN GARDEN = 3350 S.F.
 IMPERVIOUS AREA = 1115 S.F.
 REQUIRED W.Q.V. = 102 C.F.
 (W.Q.V. TO BE ADJUSTED AT PLOT PLAN SUBMISSION)

ROOF INFILTRATION DESIGN
 LOTS 2 & 3
 ROOF AREA = 1500 S.F. (ASSUMED)
 STORAGE = 1" OF RAINFALL
 1,500 X 1" X 1FT/12 = 125 C.F.
 (VOLUME TO BE ADJUSTED AT PLOT PLAN SUBMISSION)

IMPERVIOUS COVERAGE
PRE-DEVELOPMENT
 TOTAL AREA = 40,802
 IMPERVIOUS AREA = 2,000
 COVERAGE = 4.9%
POST-DEVELOPMENT
 TOTAL AREA = 40,802 S.F.
 IMPERVIOUS AREA = 7,230 S.F.
 COVERAGE = 17.7%



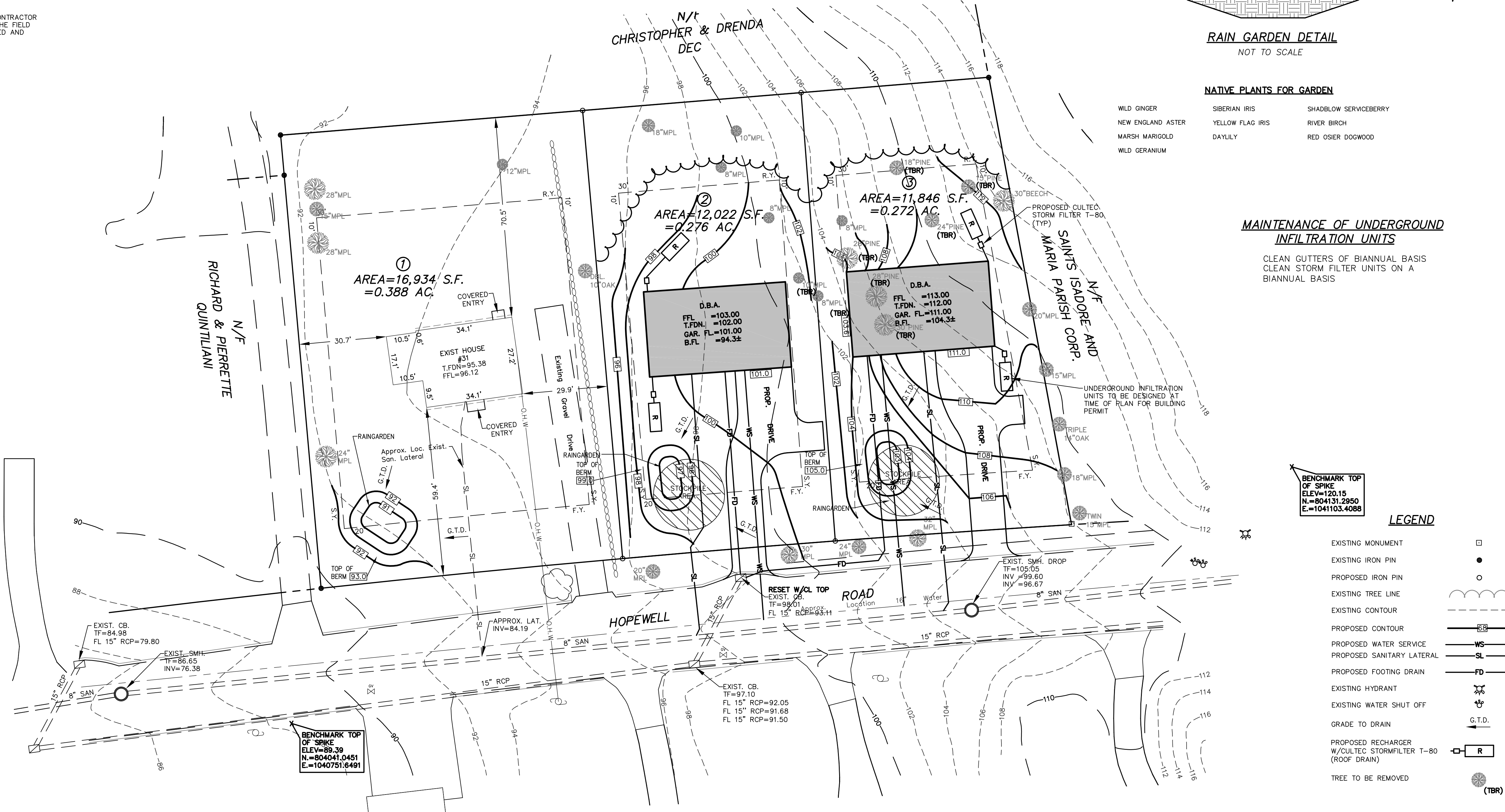
MAINTENANCE OF RAIN GARDEN
 FIRST SEASON
 - WEED (3-5" LAYER OF MULCH WILL LIMIT WEEDS)
 - WATER (GENERAL RULE OF THUMB IS 1" OF WATER PER WEEK)
 ANNUAL
 EARLY SPRING
 - CUT AND REMOVE DEAD STALKS AND SEED HEADS FROM PREVIOUS SEASON.
 - REMOVE STICKS AND DEBRIS
 - WEED
 - PRUNE SHRUBS IF NECESSARY
 - WHERE PLANTS ARE TOO CROWDED, DIVIDE AND MOVE PLANTS TO DIFFERENT AREA
 - REPLENISH MULCH TO 3-5" LAYER
 SPRING AND SUMMER
 - WEED
 - WATER DURING SEVERE DROUGHT
 FALL
 - REMOVE WEEDS AND DISEASED PLANTS
 - CUT BACK DEAD STALKS
 - REMOVE EXCESS TREE LEAVES FROM GARDEN
 - IF FALL IS DRY, WATER PLANTS UNTIL GROUND BEGINS TO FREEZE (EARLY NOVEMBER)



RAIN GARDEN DETAIL
 NOT TO SCALE

- NATIVE PLANTS FOR GARDEN**
- | | | |
|-------------------|------------------|-----------------------|
| WILD GINGER | SIBERIAN IRIS | SHADBLOW SERVICEBERRY |
| NEW ENGLAND ASTER | YELLOW FLAG IRIS | RIVER BIRCH |
| MARSH MARIGOLD | DAYLILY | RED OSIER DOGWOOD |
| WILD GERANIUM | | |

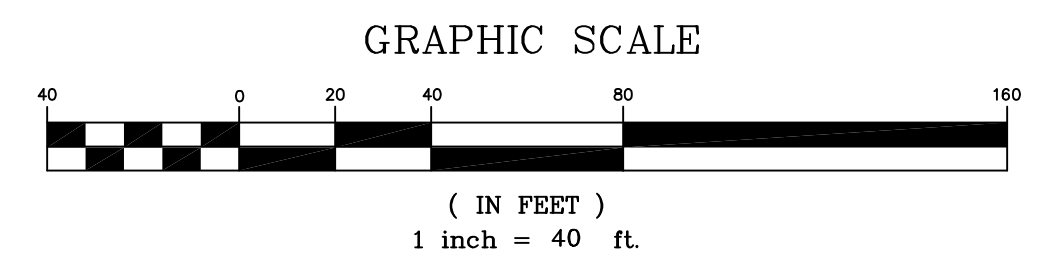
MAINTENANCE OF UNDERGROUND INFILTRATION UNITS
 CLEAN GUTTERS OF BIENNIAL BASIS
 CLEAN STORM FILTER UNITS ON A BIENNIAL BASIS



- LEGEND**
- EXISTING MONUMENT □
 - EXISTING IRON PIN ●
 - PROPOSED IRON PIN ○
 - EXISTING TREE LINE [Symbol]
 - EXISTING CONTOUR [Symbol]
 - PROPOSED CONTOUR [Symbol]
 - PROPOSED WATER SERVICE [Symbol]
 - PROPOSED SANITARY LATERAL [Symbol]
 - PROPOSED FOOTING DRAIN [Symbol]
 - EXISTING HYDRANT [Symbol]
 - EXISTING WATER SHUT OFF [Symbol]
 - GRADE TO DRAIN [Symbol]
 - PROPOSED RECHARGER W/CULTEC STORMFILTER T-80 (ROOF DRAIN) [Symbol]
 - TREE TO BE REMOVED (TBR) [Symbol]

TOWN PLAN & ZONING COMMISSION APPROVAL

CHURCHILL SUBDIVISION	VILLAGE RESIDENTIAL/GW-1
SUBDIVISION NAME	ZONE
BRAD CHURCHILL	
SUBDIVIDER	
SUBDIVISION APPROVAL DATE	PLAN & ZONING COMMISSION CHAIRMAN
COMPLETION DATE FOR SUBDIVISION IMPROVEMENTS	COMMUNITY DEVELOPMENT DIRECTOR
FILE NO.	TOWN ENGINEER



APPLICANT
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 C/O BRADLEY CHURCHILL
 85 DUG RD
 SOUTH GLASTONBURY, CONN. 06073

ZONE: VILLAGE RESIDENTIAL
 GROUNDWATER PROTECTION ZONE 1 (GW1)

TOTAL AREA=40,802 S.F.
 =0.936 AC.

PUBLIC WATER
 PUBLIC SANITARY SEWER

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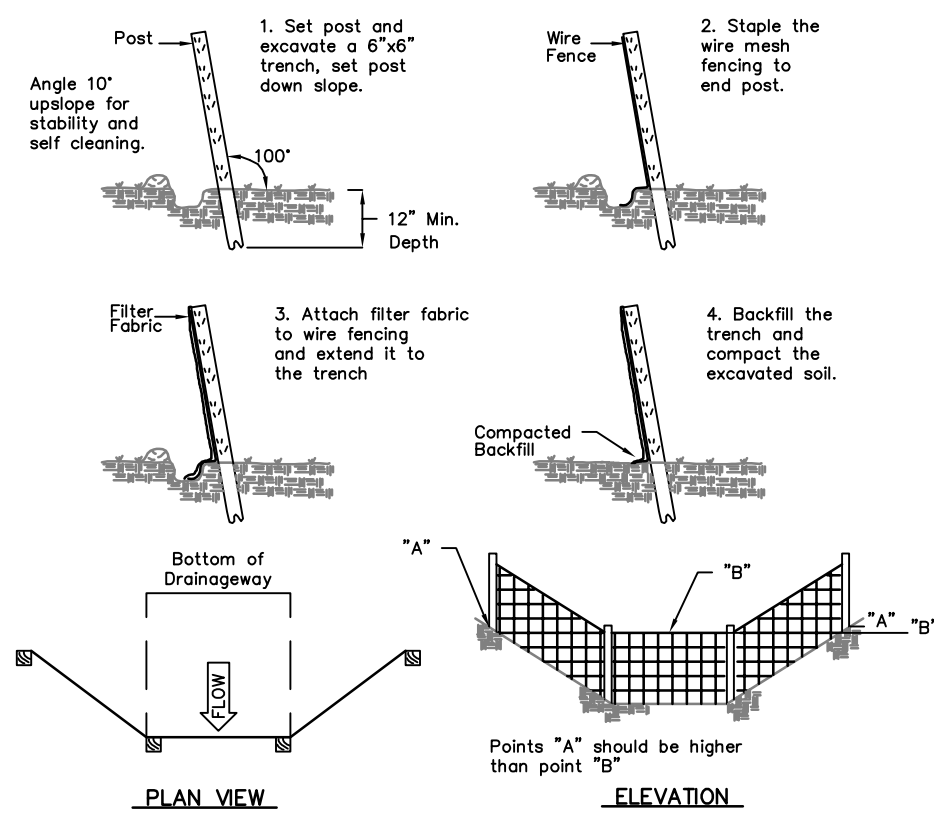
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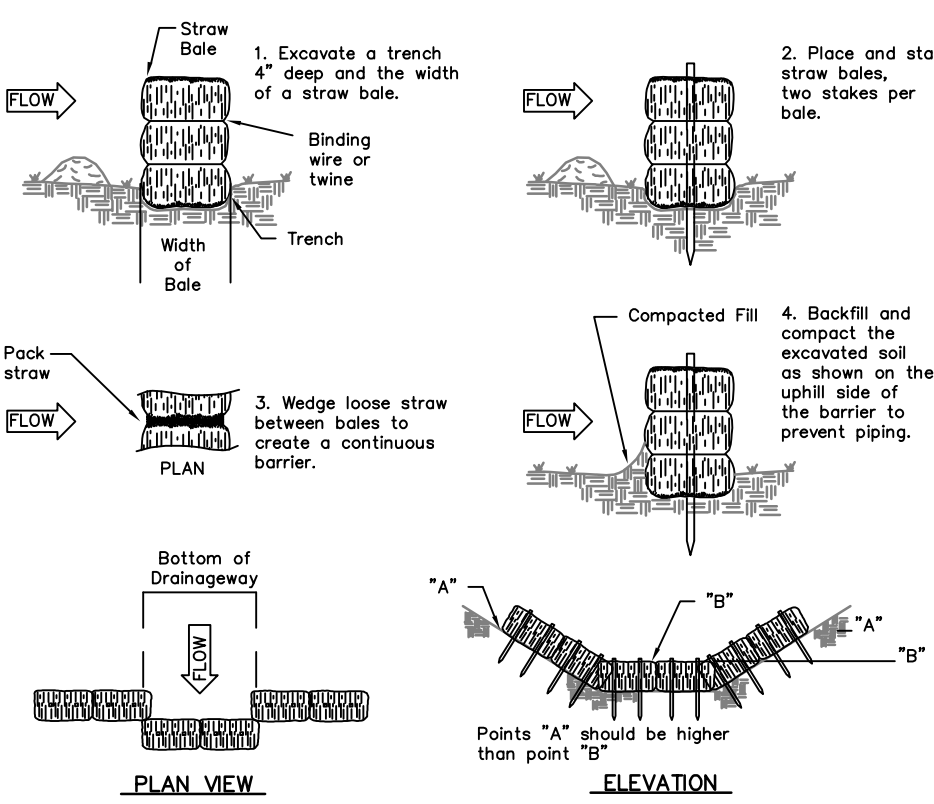
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 SOUTH GLASTONBURY, CONN.

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 DRW. BY: TCJ
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 SCALE: 1"=20'
 SHEET 3 OF 6
 MAP NO. 129-20-1T



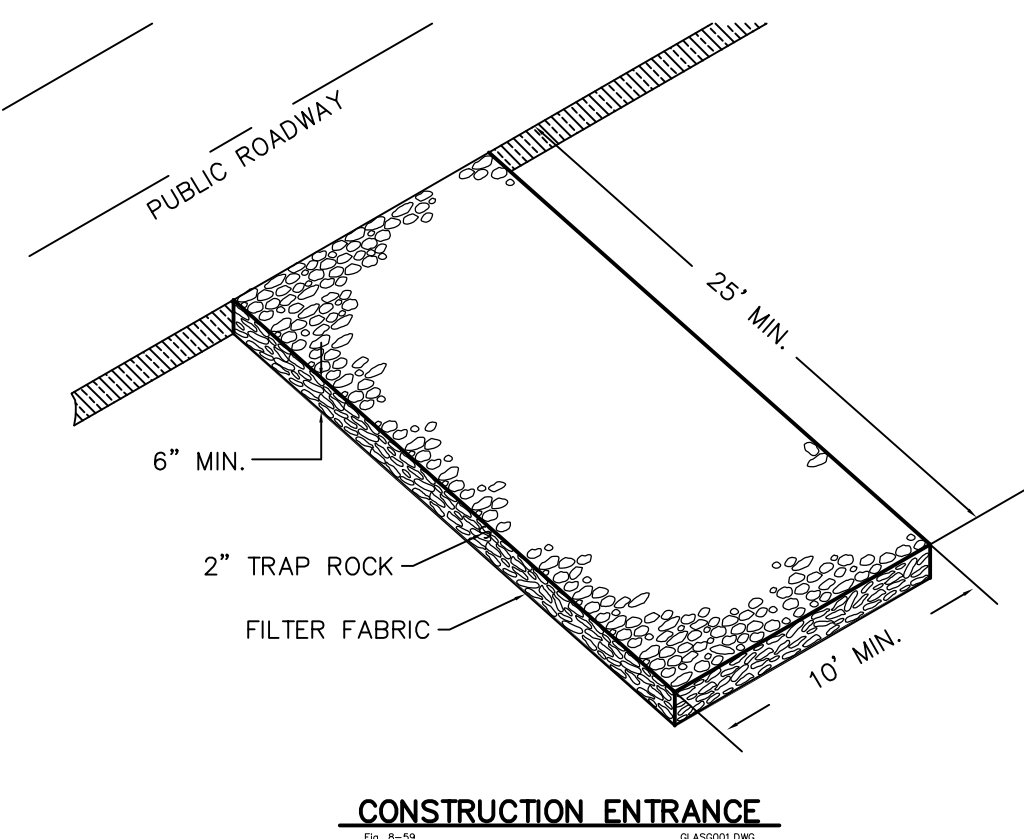
Source: U.S. Department of Agriculture, Soil Conservation Service, Storrs, Connecticut

PLACEMENT AND CONSTRUCTION OF A SYNTHETIC FILTER BARRIER



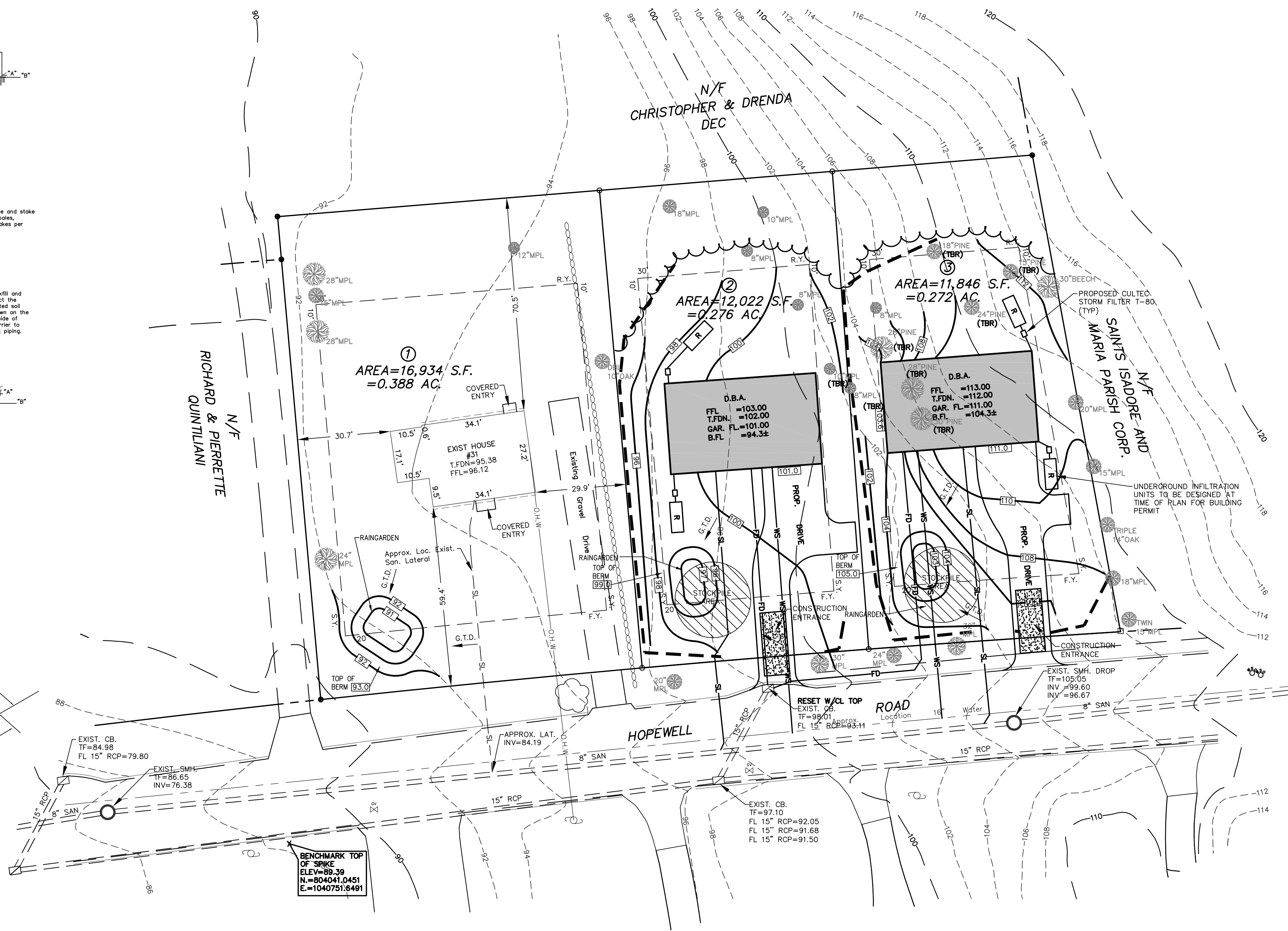
Source: U.S. Department of Agriculture, Soil Conservation Service, Storrs, Connecticut

PLACEMENT AND CONSTRUCTION OF A STRAW BALE BARRIER



CONSTRUCTION ENTRANCE

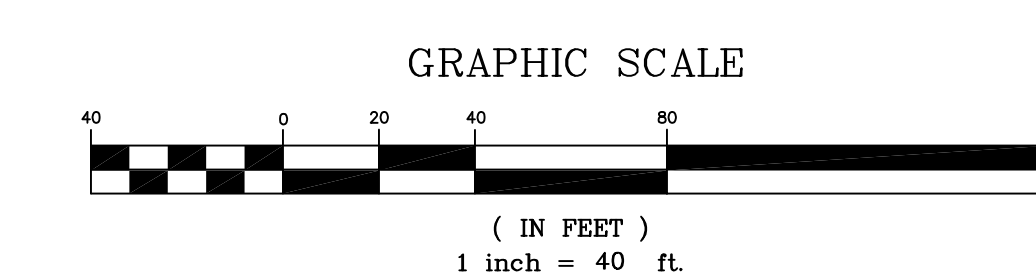
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SOIL TYPES
HAVEN & ENFIELD

LEGEND

- EXISTING MONUMENT
- EXISTING IRON PIN
- PROPOSED IRON PIN
- EXISTING TREE LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROP. HAY BALE/SILT FENCE
- PROPOSED WATER
- PROPOSED SANITARY LATERAL
- FOOTING DRAIN
- PROPOSED DRYWELL
- FOOTING DRAIN
- PROPOSED DRYWELL



TOWN PLAN & ZONING COMMISSION APPROVAL	
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BRAD CHURCHILL	
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ZONE: VILLAGE RESIDENTIAL
GROUNDWATER PROTECTION ZONE 1 (GW1)
TOTAL AREA=40,802 S.F.
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EROSION & SEDIMENTATION CONTROL PLAN
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 SCALE: 1"=20'
 SHEET 4 OF 6
 MAP NO. 129-20-1ES

GENERAL NOTES

ALL CONSTRUCTION METHODS TO CONFORM TO CONN. D.O.T. FORM 818 AND/OR THE TOWN STANDARD SPECIFICATIONS.
 ALL UTILITIES TO BE INSTALLED UNDERGROUND.
 ALL DRAINAGE EASEMENTS, UNLESS OTHERWISE NOTED, TO BE CONVEYED TO THE TOWN.
 THE LOCATION OF ALL EXISTING UTILITIES SHOWN IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATION OF EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND FOR COORDINATING CONNECTION OF PROPOSED AND EXISTING UTILITIES.
 ANY UNSUITABLE MATERIAL IN PAVEMENT AREAS TO BE REMOVED AND REPLACED WITH SUITABLE MATERIAL AS DIRECTED BY THE TOWN.
 TOWN MAY REQUIRE CHANGES TO THE PLAN TO ADDRESS PROBLEMS THAT MAY RESULT IN THE FIELD.
 ALL UNDERGROUND UTILITIES TO BE INSTALLED/DIRECTED BY APPROPRIATE AUTHORITIES.
 ALL UNDERGROUND UTILITIES MUST BE INSTALLED BEFORE ROADWAY PAVEMENT.
 FOUNDATION DRAINS SHALL BE DEPICTED ON ALL PLOT PLANS.

HOUSE SITE DEVELOPMENT

ALL DRIVEWAY 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.
 TOPSOIL AND EXCAVATED SUBSOIL FROM THE FOUNDATION AREA SHOULD BE STOCKPILED WITHIN THE AREA OF DISTURBANCE IF NOT USED FOR ONSITE REGRADING. EACH STOCKPILE MUST BE ADEQUATELY RINGED WITH SEDIMENT CONTROL MATERIALS (I.E. HAY BALES AND/OR FABRIC FENCE).
 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.
 STUMPAGE AND DEBRIS SHALL NOT BE BURIED ON SITE. BLASTED ROCK THAT CANNOT BE USED AS LANDSCAPE BACKDROP OR AS STABILIZATION MATERIAL SHALL BE TAKEN OFF SITE TO A SUITABLE LOCATION.
 PLOT PLANS FOR EACH LOT SHALL INDICATE PROPOSED SEDIMENTATION AND EROSION CONTROLS. ALSO THE PROPOSED HOUSE LOCATION, LOT GRADING LIMIT OF TREE CLEARING, DRIVEWAY DESIGN, AND SITE DRAINAGE PLAN SHALL BE SHOWN. THESE PLANS SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE TOWN.
 UPON APPROVAL OF INDIVIDUAL SITE PLAN DEVELOPMENT, THE LIMITS OF DEVELOPMENT SHOULD BE ESTABLISHED IN THE FIELD FOR EACH PROPOSED RESIDENTIAL STRUCTURE. DISTURBANCE LIMITS OF 25-30 FEET BEYOND THE PHYSICAL DIMENSIONS OF THE STRUCTURE ARE RECOMMENDED.

GENERAL

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.
 IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INsofar AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS, AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES AND WATERBODIES, AND TO PREVENT, INsofar AS POSSIBLE, EROSION ON THE SITE.
 CONSTRUCTION METHODS, IN GENERAL, SHALL BE IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2001) BY THE STATE OF CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.

LAND GRADING

GENERAL:

- 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 BASIC CRITERIA:
 - THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
 - THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
 - THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).
 - NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE, OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSE OR WATERBODY.
 - INSTALLATION OF SEDIMENT AND EROSION CONTROLS SUCH AS HAY BALES AND SILT FENCE SHALL BE ESTABLISHED PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITIES. ALL SEDIMENT AND EROSION CONTROL STRUCTURES MUST BE MONITORED AND MAINTAINED BY THE CONTRACTOR UNTIL THE SOIL SURFACE IS STABILIZED.
 - IF NECESSARY, LATERAL WATER DIVERSIONS SHALL BE INSTALLED ACROSS THE GRADED ROADWAY TO PREVENT DOWNSLOPE OUTFLOW AND EROSION.
 - HAY BALES SHALL BE STAKED AND SILT FENCES SHALL BE PROPERLY SECURED. SEDIMENT WILL BE REMOVED FROM ALL CATCHMENTS AS NECESSARY.
 - PRIOR TO ANY REGRADING, STONE APRON SHALL BE PLACED BY THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.
 - PROVISIONS SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS, TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES, AND FILL SLOPES.
 - EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING OR CRACKING.

TOPSOILING

GENERAL:

- 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.
- REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS, AND CONSTRUCTION DEBRIS.
- APPLY LIME ACCORDING TO SOIL TEST OR AT THE RATE OF TWO (2) TONS PER ACRE.

MATERIAL:

- TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
- TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
- AN ORGANIC MATTER CONTENT OF OVER (6-20%) IS HIGHLY DESIRABLE. AVOID LIGHT COLORED LOWER SUBSOIL MATERIAL.

APPLICATION:

- AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
- SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST FOUR (4") INCHES.

EROSION CHECKS

GENERAL:

- TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND, OR SEDIMENT FILTER FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

CONSTRUCTION:

- BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (4") INCHES.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
- FILTER FABRIC SHALL BE SECURELY FASTENED AT THE TOP OF A THREE (3') FOOT HIGH FENCE AND BURIED A MINIMUM OF FOUR (4") INCHES INTO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO (2') FEET.

INSTALLATION AND MAINTENANCE:

- BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
- BALED HAY EROSION BARRIERS AND SEDIMENT FILTER FENCES SHALL BE INSTALLED AT THE LOCATIONS INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DETERMINED APPROPRIATE DURING CONSTRUCTION.
- ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
- INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

WINDBLOWN SEDIMENT

GENERAL:

- ALL WINDBLOWN SEDIMENTS SHALL BE CONTROLLED AT ALL TIMES. THE SITE CONTRACTOR IS RESPONSIBLE FOR APPLYING DUST CONTROL AS OFTEN AS NEEDED TO PREVENT ANY WINDBLOWN SEDIMENTS FROM LEAVING THE SITE. PREDETERMINED TRAFFIC ROUTES FOR ALL TRAFFIC SHALL BE ESTABLISHED BY THE SITE CONTRACTOR TO STABILIZED ROUTES. TEMPORARY AND PERMANENT MULCHING AND TEMPORARY AND PERMANENT VEGETATIVE COVER SHALL BE USED TO MINIMIZE THE NEED FOR DUST CONTROL. MECHANICAL SWEEPERS SHALL BE USED ON ALL PAVED SURFACES TO PREVENT DUST BUILD UP DURING THE COURSE OF SITE WORK.

METHODS:

- SPRAY ON ADHESIVES ARE ACCEPTABLE AND SHOULD BE APPLIED ACCORDING TO MANUFACTURER'S GUIDELINES.
- WATER IS ACCEPTABLE BUT MUST BE APPLIED OFTEN IN HOT, DRY WEATHER.
- CALCIUM CHLORIDE IS ACCEPTABLE BUT MUST BE APPLIED AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE.
- CRUSHED STONE OR COARSE GRAVEL CAN ALSO BE USED.

TEMPORARY VEGETATIVE COVER

GENERAL:

- 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.

SITE PREPARATION:

- INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
- REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
- APPLY LIME ACCORDING TO SOIL TEST OR AT A RATE OF ONE (1) TON OF GROUND DOLOMITIC LIMESTONE PER ACRE (5 LBS. PER 100 SQUARE FEET).
- APPLY FERTILIZER ACCORDING TO SOIL TEST OR AT THE RATE OF 300 LBS. OF 10-10-10 PER ACRE (7 LBS. PER 1,000 SQUARE FEET).
- UNLESS HYDROSEEDING, WORK IN LIME AND FERTILIZER TO A DEPTH OF FOUR (4") INCHES USING A DISK OR ANY SUITABLE EQUIPMENT.
- TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM, LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.

ESTABLISHMENT:

- USE ANNUAL RYEGRASS AT A RATE OF 40 LBS./AC. OR SUITABLE EQUIVALENT AS SPECIFIED IN THE "GUIDELINES".
- SEEDING TO BE DONE FROM APRIL 1ST TO JUNE 15 OR AUGUST 1ST TO OCTOBER 1ST. WINTER STABILIZATION PLANTINGS TO BE NO LATER THAN OCTOBER 1ST. THIS INCLUDES STOCKPILE AREAS.
- APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
- UNLESS HYDROSEEDING, COVER RYEGRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT. COVER SUDANGRASS AND SMALL GRAINS WITH 1/2 INCH SOIL.
- MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO THE GUIDELINES IN THE "GUIDELINES".

PERMANENT VEGETATIVE COVER

GENERAL:

- 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 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.

SITE PREPARATION:

- INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
- REMOVE LOOSE ROCK, STONE AND CONSTRUCTION DEBRIS FROM AREA.
- PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
- APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
- APPLY FERTILIZER ACCORDING TO SOIL TEST OR:

— SPRING SEEDING:
 WORK DEEPLY IN SOIL BEFORE SEEDING, 300 LBS OF 10-10-10 FERTILIZER PER ACRE (7 LBS PER 1,000 SQUARE FEET); THEN SIX (6) TO EIGHT (8) WEEKS LATER APPLY ON THE SURFACE AN ADDITIONAL 300 LBS OF 10-10-10 FERTILIZER PER ACRE.

— FALL SEEDING:
 WORK DEEPLY IN SOIL BEFORE SEEDING, 600 LBS OF 10-10-10 FERTILIZER PER ACRE (14 LBS PER 1,000 SQUARE FEET).

ESTABLISHMENT:

- SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
- SELECT ADAPTED SEED MIXTURE AS FOLLOWS. NOTE RATES AND THE SEEDING DATES.

SUNNY TO PARTIALLY SUNNY SITES

KENTUCKY BLUEGRASS	20	0.50
CREeping RED FESCUE	20	0.50
PERENNIAL RYEGRASS	05	0.10
TOTAL	45	1.10

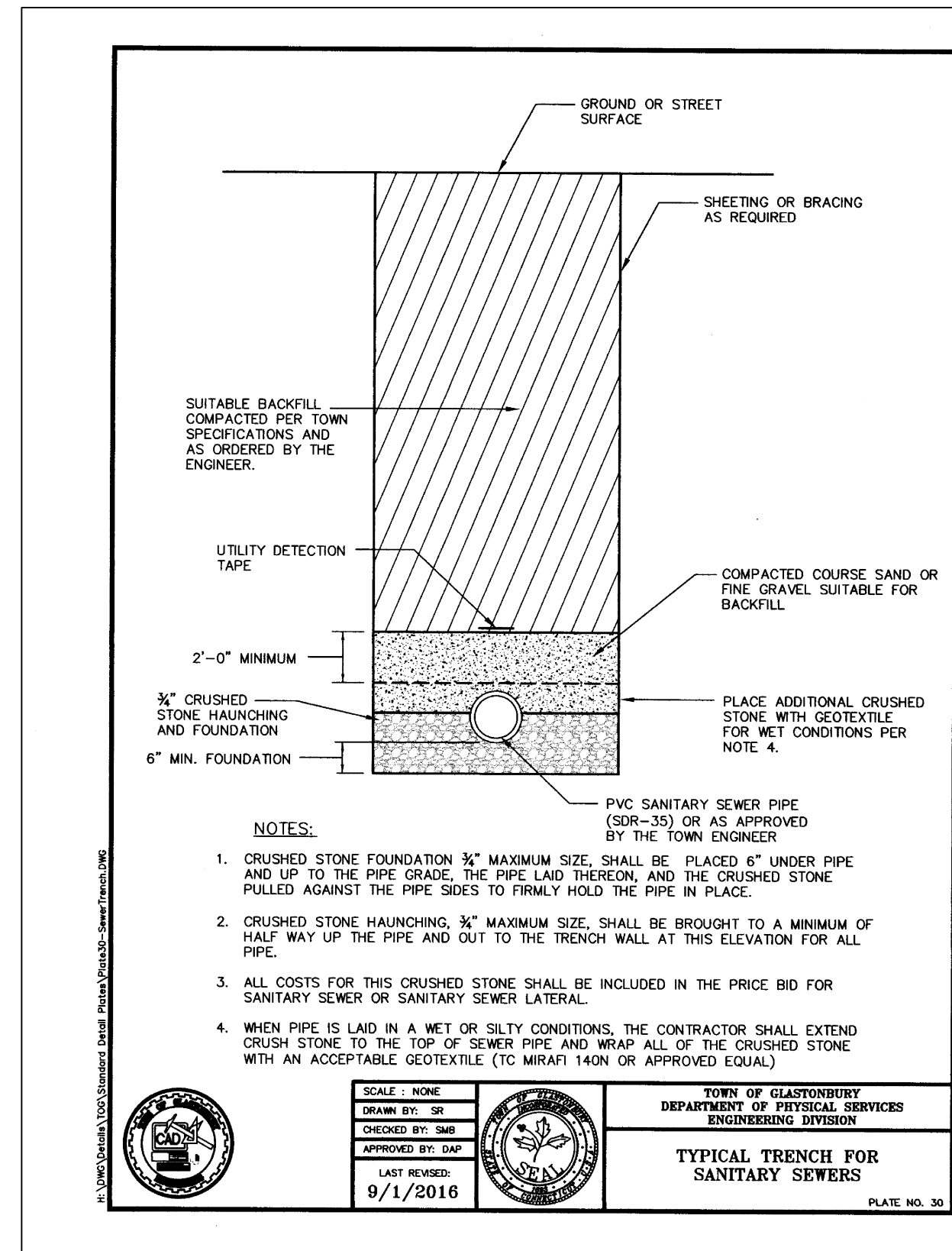
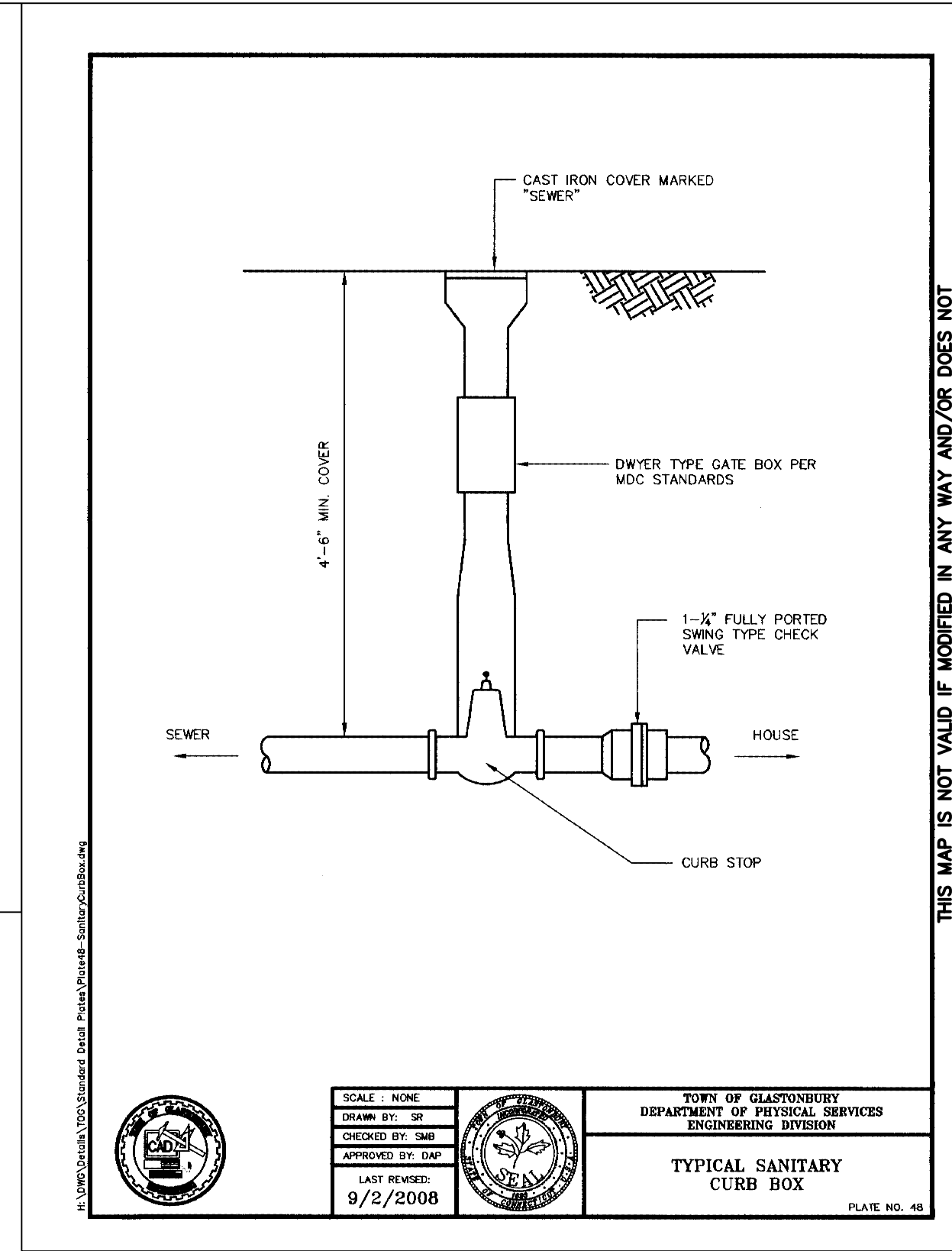
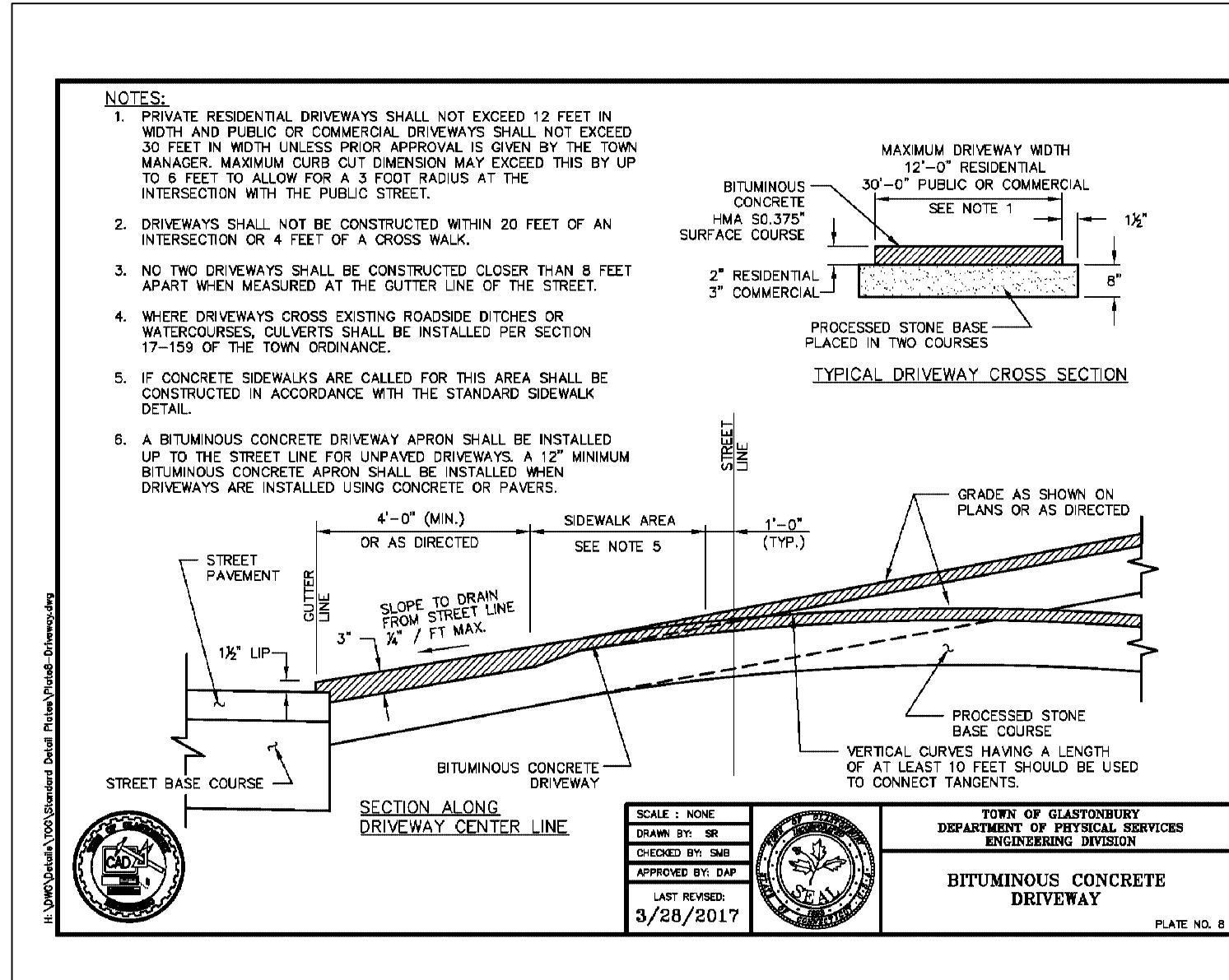
SHADY SITES

CREeping RED FESCUE	50	1.00
PERENNIAL RYEGRASS	05	0.10
TOTAL	55	1.10

DROUGHTY SITES

CREeping RED FESCUE	40	1.00
TALL FESCUE	20	0.50
TOTAL	60	1.50

- FINAL SEEDING SHALL TAKE PLACE PRIOR TO OCTOBER 1ST AS SEEDING AFTER THIS DATE RUNS A DISTINCT CHANCE OF FAILURE DUE TO ADVERSE WEATHER. ANY AREAS THAT ARE DISTURBED BETWEEN OCTOBER 1ST AND APRIL 1ST SHALL BE STABILIZED BY NON-VEGETATIVE MEANS SUCH AS HEAVY MULCHING WITH A BINDER OR JUTE MATTING WHICH WILL HAVE TO BE REMOVED BEFORE FINAL SEEDING AND THEN REPLACED AFTER FINAL SEEDING.
- APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
- COVER GRASS AND LEGUME SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
- MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO THE GUIDELINES IN THE "GUIDELINES".
- USE PROPER INOCULANT ON ALL LEGUME SEEDINGS, USE FOUR (4) TIMES NORMAL RATE WHEN HYDROSEEDING.



TOWN PLAN & ZONING COMMISSION APPROVAL

CHURCHILL SUBDIVISION	VILLAGE RESIDENTIAL/GW-1
SUBDIVISION NAME	ZONE
BRAD CHURCHILL	
SUBDIVIDER	
SUBDIVISION APPROVAL DATE	PLAN & ZONING COMMISSION CHAIRMAN
COMPLETION DATE FOR SUBDIVISION IMPROVEMENTS	COMMUNITY DEVELOPMENT DIRECTOR
FILE NO.	TOWN ENGINEER

APPLICANT
CONTRAIL, LLC
 C/O BRADLEY CHURCHILL
 85 DUG RD
 SOUTH GLASTONBURY, CONN. 06073

THIS MAP IS NOT VALID IF MODIFIED IN ANY WAY AND/OR DOES NOT BEAR THE EMBOSSED SEAL OF THE UNDERSIGNED

I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAN IS SUBSTANTIALLY CORRECT.

MARK W. FRIEND
 P.E. # 15818

MEGSON, HEAGLE & FRIEND
 CIVIL ENGINEERS & LAND SURVEYORS, LLC
 81 RANKIN ROAD
 GLASTONBURY, CONN. 06033
 PHONE (860)-859-0587

GENERAL NOTES & DETAILS
CHURCHILL SUBDIVISION
 PREPARED FOR
CONTRAIL, LLC
 SOUTH GLASTONBURY, CONN.

CK. BY: MWF
 DRW. BY: TCJ
 DATE: 5-6-21
 SCALE: NONE
 SHEET 5 OF 6
 MAP NO. 129-20-1N

APPLICANT
CONTRAIL, LLC
C/O BRADLEY CHURCHILL
85 DUG RD
SOUTH GLASTONBURY, CONN. 06073

TOWN PLAN & ZONING COMMISSION APPROVAL	
CHURCHILL SUBDIVISION	VILLAGE RESIDENTIAL/GW-1
SUBDIVISION NAME	ZONE
BRAD CHURCHILL	
SUBDIVIDER	
_____	_____
SUBDIVISION APPROVAL DATE	PLAN & ZONING COMMISSION CHAIRMAN
_____	_____
COMPLETION DATE FOR SUBDIVISION IMPROVEMENTS	COMMUNITY DEVELOPMENT DIRECTOR
_____	_____
FILE NO.	TOWN ENGINEER
_____	_____

CONDITIONS OF APPROVAL
CHURCHILL SUBDIVISION
PREPARED FOR
CONTRAIL , LLC
SOUTH GLASTONBURY, CONN.

MEGSON, HEAGLE & FRIEND
CIVIL ENGINEERS & LAND SURVEYORS, LLC
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CK. BY: MWF
DRW. BY: TCJ
DATE: 5-6-21
SCALE: NONE
SHEET 6 OF 6
MAP NO. 129-20-1CA